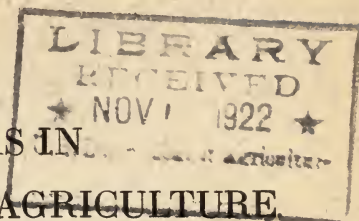


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U. S. DEPARTMENT OF AGRICULTURE.



LIST OF WORKERS IN

SUBJECTS PERTAINING TO AGRICULTURE.

PART 1. United States Department of Agriculture.

Prepared in the Division of Publications.

1921-1922.



WASHINGTON:
GOVERNMENT PRINTING OFFICE.
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PART 1.

UNITED STATES DEPARTMENT OF
AGRICULTURE.

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LIST OF WORKERS IN SUBJECTS PERTAINING TO AGRICULTURE.

UNITED STATES DEPARTMENT OF AGRICULTURE.

(Prepared in the Division of Publications.)

OFFICE OF THE SECRETARY.

Secretary of Agriculture, HENRY C. WALLACE.

The Secretary of Agriculture is charged with the work of promoting agriculture in its broadest sense. He exercises general supervision and control over the affairs of the department and formulates and establishes the general policies to be pursued by its various branches and offices.

Assistant Secretary of Agriculture, C. W. PUGSLEY.

Director of Scientific Work, E. D. BALL.

Administrative Assistants, W. A. JUMP, H. M. BAIN.

Chief Clerk of Department, ROBERT M. REESE.

The Chief Clerk has general supervision of clerks and employees; of the order of business of the department and of records of the Secretary's office; and of expenditures from appropriations for miscellaneous expenses, rents, etc. He acts as purchasing officer of the Department and is chairman of the Department Board of Award. The Chief Clerk is custodian of buildings.

Mechanical Superintendent, R. L. SWENSON.

Traffic Manager, ELMER E. FORBES.

Office of Inspection. ALEX. MCC. ASHLEY, *in charge*.

Fiscal Section. Advises and assists the bureaus in fiscal matters. Conducts inspection of fiscal records, transactions, and procedure. Proposes changes in departmental regulations and in bureau procedure in fiscal matters. Considers administrative and fiscal effect of papers drawn for signature of Secretary and approves or modifies same prior to signature. Prepares financial reports of departmental appropriations.

Personnel Section. Investigates or reviews personnel cases involving disciplinary action by Secretary. Drafts charges, collects and briefs evidence, and prepares appropriate recommendations and correspondence.

Chief Personnel Officer, P. L. GLADMON.

The Chief Personnel Officer prepares all papers connected with appointments, transfers, promotions, reductions, details, furloughs, and removals, and has charge of correspondence with the Civil Service Commission. He is the custodian of the personnel records.

Press Service. F. M. RUSSELL, *Assistant to the Assistant Secretary, in Charge*.

The Press Service is established to secure circulation in popular form of the discoveries and recommendations of the scientists, specialists, and field workers of the department. It gives out to the public press agricultural facts taken from publications and official orders, and also from oral statements of specialists. Material so disseminated is set forth in such form as to attract public attention, be easily understandable, and lead to the adoption of the methods recommended. The office also prepares circulars, posters, and pamphlets designed to assist workers in carrying out educational and demonstration plans.

Exhibits. J. W. HISCOX, *Assistant to the Assistant Secretary, in Charge*.

The office of Exhibits supervises the preparation, shipment, and display of agricultural exhibits at fairs and expositions throughout the country and handles all correspondence of the department relative to exhibits at fairs and expositions of various kinds, cooperating with the several branches of the department in this work.

Office of the Solicitor. R. W. WILLIAMS, *Solicitor*; C. W. BOYLE, *Assistant Solicitor*; Chief Clerk, S. E. NORRIS.

The Solicitor is the legal adviser of the Secretary and heads of the several branches of the Department. He directs and supervises all law work of the department.

Food and Drugs Section. P. D. CRONIN, *Attorney in Charge*.

In connection with the Federal food and drugs act, and the insecticide act, this section prepares recommendations to United States attorneys for seizures, drafts informations and indictments in criminal cases, assists in the trial of important or technical cases, both civil and criminal, prepares notices of judgments, and aids in the conduct of public hearings and in drawing regulations, food-inspection decisions, and other rulings; also prepares reports of violations, briefs, and memoranda, aids in drafting regulations, and assists in the preparation for trial of cases under the seed importation act.

Marketing and Rural Organization and National Forests Section. FRED LEES, *Attorney in Charge*.

This section handles law work in connection with the United States cotton futures act, the United States grain standards act, the United States warehouse act, the standard container act, the food products inspection law, and questions arising under the food control act relating to licensing of stockyards and dealers thereon and the licensing of manufacturers of, and dealers in, fertilizers and farm equipment; advises the Bureau of Markets regarding the legality of various types of cooperative organizations, and concerning legal problems relative to the marketing and distribution of farm products and rural credits; conducts general correspondence and compiles laws relating to these subjects; and also does the law work arising from business of the Forest Service, including contests of claims to lands in the national forests under homestead, mineral, and other laws, cases arising out of timber, fire, fencing, and other trespasses on the national forests, opinions to the Forester and review of opinions presented to the district foresters by assistants to the Solicitor in the field, and various other legal matters connected with the national forests, such as drafting of contracts, regulations, and forms, correspondence with the Attorney General and Secretary of the Interior and miscellaneous correspondence.

Federal Aid Road Acts and Plant Quarantine Section. THOMAS G. SHEARMAN, *Attorney in Charge*.

This section handles legal questions and aids in drafting regulations, forms, and agreements under the Federal-aid road act, prepares reports of violations, briefs, and memoranda, aids in drafting regulations, and assists in the trial of cases under the plant quarantine law.

Acquisition of Lands Section. A. H. MCCONVILLE, *Attorney in Charge*.

In connection with the acquisition of lands under the Weeks forestry law (act of Mar. 1, 1911), this section prepares agreements of purchase, supervises and directs the work of title attorneys engaged in the examination of titles, assists United States attorneys in the conduct of condemnation proceedings, and handles correspondence with the Attorney General relating thereto.

Meat Inspection, Animal Quarantine, and Transportation Laws, Patent, and Contract Section. J. L. CARR, *assistant to the Solicitor, in charge*.

This section prepares reports of violations, briefs, and memoranda, aids in drafting regulations, and assists in the trial of cases under the meat-inspection, animal-quarantine, 28-hour, other animal transportation, and virus laws, and drafts complaints, informations, and indictments in the 28-hour, quarantine, and virus cases; also draws bonds, contracts, leases, and other agreements, and prosecutes applications of department employees for patents.

Wild Life Conservation and Fiscal Section. J. P. WENCHEL, *assistant to the Solicitor, in Charge*.

This section prepares reports of violations, briefs, and memoranda, aids in drafting regulations, and assists in the trial of cases under the Lacey Act, migratory bird law, Alaska game law, and bird reserves law; and also prepares opinions on various questions relating to the fiscal affairs of the department and handles claims for balances due estates of deceased employees.

Assistants to the Solicitor stationed in the field.

Branches of the office of the Solicitor are located at Missoula, Mont., in charge of C. S. Brothers; Denver, Colo., in charge of W. J. Ise; Albuquerque, N. Mex., in charge of M. M. Cheney; Ogden, Utah, in charge of E. S. French; San Francisco, Calif., in charge of H. P. Dechant; and Portland, Oreg., in charge of W. F. Staley. These officers

are legal advisers to the district foresters and handle the law work of the Forest Service in the field, besides such local legal work of the department as may be assigned them by the Solicitor.

WEATHER BUREAU.

Chief, CHARLES F. MARVIN; Assistant Chief, C. C. CLARK; Chief Clerk, R. H. WEIGHTMAN.

The Weather Bureau has charge of the forecasting of the weather; the issue and display of weather forecasts and storm, cold-wave, frost, and flood warnings; the gauging and reporting of river stages; the maintenance and operation of the United States Weather Bureau telegraph and telephone lines; the collection and transmission of marine intelligence for the benefit of commerce and navigation; the reporting of temperature and rainfall conditions for agricultural interests; and the taking of such meteorological and seismological observations as may be necessary to determine and record the climatic and seismic conditions of the United States.

Forecast Division. EDGAR B. CALVERT, *in charge.*

This division supervises the receiving and charting, twice daily, of telegraphic reports of the prevailing weather conditions and distribution of information as to current weather conditions and forecasts of impending weather changes in all parts of the country; also warnings of storms, hurricanes, cold waves, frosts, heavy snows, etc., for the special benefit of agriculture, commerce, and navigation, including aviation.

River and Flood Division. H. C. FRANKENFIELD, *in charge.*

This division has charge of the collection of information as to stages of water along the navigable rivers, the issue of flood warnings, and the study of the regimen of the rivers of the United States. It gathers information on the depth of snowfall in the mountains of the West, for a study of the flow of water in the streams supplying irrigation projects, taking into consideration the effect of evaporation from ponds and lakes, in the interest of water storage for irrigation, power development, and navigation. It supervises, on the part of the Weather Bureau, the experiment station maintained jointly by the Weather Bureau and the Forest Service at Wagon Wheel Gap, Colo.

Division of Agricultural Meteorology. J. WARREN SMITH, *in charge.*

This division conducts studies regarding the relation of weather to crops, and collects statistical data required in such studies, having the direction and supervision of cooperative relations with the State experiment stations and other contributing organizations. It supervises the work of about 400 special stations, maintained in connection with the corn, wheat, cotton, sugar, rice, tobacco, fruit, and cattle industries. The division supervises the distribution of special warnings for the benefit of growers of certain crops. Data showing the current weather conditions throughout the country and the effects of those conditions upon important crops are collected and published throughout the year; and the issue of weather crop summaries at the various State centers is supervised.

Climatological Division. PRESTON C. DAY, *in charge.*

This division has charge of the collection, study, and publication of climatological data for the United States. It has general supervision of the work of about 4,500 cooperative stations, from which are collected the records of daily observations of temperature, precipitation, and other meteorological conditions necessary to establish the history of the climate of the various portions of the United States. It also supervises the equipment and personnel of stations maintained in connection with the principal agricultural activities of the country. The division has supervision of a bulletin issued weekly during the winter months, showing depth of snow on ground, and thickness of ice in rivers and harbors, and from time to time issues special bulletins or papers bearing on climatological subjects. It has charge of the preparation of the climatological portions of the annual reports of the bureau, and supervises the monthly and annual summaries and other publications of the climatological services of the various States. This division has charge of the barometry of the United States, and of the preparation of the normals of pressure, temperature, precipitation, etc.

Marine Division. FRANKLIN G. TINGLEY, *in charge.*

This division supervises the work of securing and collating reports from marine observers containing information pertaining to the oceans and furnishes data for Pilot Charts, in admiralty cases, etc. Supervises vessel reporting service.

Instrument Division. BENJAMIN C. KADEL, *in charge.*

Has supervision of the maintenance of a high standard of instrumentation and equipment for the meteorological and seismological observational work of the bureau generally, involving the supervision of the installation and methods of use of the instruments and equipment required for meteorological observations of the bureau in the field; the installation and maintenance of the display equipment of storm-warning stations; supervision of all evaporation observations; installation and maintenance of automatic river gages; the adjustment and application of corrections of instruments in the hands of observers in the field; problems relating to protection from lightning; the testing, standardizing, and repairing of all apparatus; and the designing and constructing of new instrumental equipment required for the work of the Weather Bureau.

Telegraph Division. S. PERCY MINNICK, *in charge.*

This division receives, transmits, and records all telegrams from the central office, supervises the telegraph work performed at field stations, arranges telegraph circuits, maintains and repairs United States Weather Bureau telegraph lines and submarine cables, and examines all telegraph and field telephone accounts.

Library. CHARLES F. TALMAN, *in charge.*

The library includes standard works of reference, technical books on meteorology and allied sciences, and a complete file of the publications of meteorological and climatological services in all parts of the world. A catalogue is prepared of the meteorological contents of all the principal scientific periodicals of the world, including proceedings and transactions of societies. Translations from foreign languages are made in the library.

Office of the Editor. ALFRED J. HENRY, *in charge.*

This office edits and supervises the publication of the Monthly Weather Review; it also has general editorial supervision over scientific and semiscientific papers submitted for publication by the bureau, calling attention to such of these as seem appropriate for the Monthly Weather Review or the Journal of Agricultural Research, the daily press, etc. It prepares such summaries and indexes as may be necessary, and also prepares abstracts and notes covering the progress of meteorology.

Printing Division. CHARLES T. BURNS, *in charge.*

The division prints and mails the daily weather map and the various charts and miscellaneous printed matter pertaining to the bureau at Washington; supervises field printing plants, and has the custody of and distributes station forms and printing supplies.

Division of Supplies. BENJAMIN A. BLUNDON, *in charge.*

This division purchases and issues supplies and is charged with the safe-keeping of all property belonging to the bureau.

Stations and Accounts Division. DELOS T. MARING, *in charge.*

This division audits, adjusts, and prepares for payment all accounts and claims against the bureau; prepares advertisements; issues requests for passenger transportation; transacts all business relating to the financial interests of the bureau; and supervises the construction of Weather Bureau buildings outside of Washington, including repairs thereto.

Solar Radiation Investigations. HERBERT H. KIMBALL, *in charge.*

Principally concerned with measurements of the rate at which heat is received at the surface of the earth by radiation during the day from the sun and sky combined and from each source separately; also that lost at night, and the relation of these measurements to atmospheric conditions.

Seismological Investigations. WILLIAM J. HUMPHREYS, *in charge.*

These investigations include the collection and study of both instrumental records and personal observations of earthquake phenomena throughout the United States. One of the immediate objects in view is the detailed mapping of the country with reference to existing faults on the lines of weakness of the earth's crust as evidenced by breaks or movements thereon that occasionally take place, causing small local earthquakes. Such maps are of interest to those who have occasion to locate dams and similar important permanent structures.

Aerological Investigations. WILLIS R. GREGG, *in charge.*

The work includes the making of observations at certain field stations by means of kites and balloons and the reduction, study, and publication of the data thus obtained with a view to extending our knowledge of the dynamics of the atmosphere and the

making available to artillery, aviation, and other interests useful and practical information. Data of the upper air thus obtained are telegraphed to Washington for use in diagnosing general weather conditions and for furnishing information on conditions in the free air for the use of aviators. At the present time there are in operation six stations at which upper-air observations are made by means of kites and balloons and nine others where balloons only are used.

Weather Bureau stations and work outside of Washington, D. C.

This bureau maintains throughout the United States, in the West Indies, in Alaska, and in Hawaii about 200 meteorological stations employing from 1 to 15 men each.

For forecast purposes the United States is divided into districts comprising: (1) The upper Mississippi Valley, the Northwest, and the Great Lakes, Henry J. Cox, Chicago, Ill., in charge. (2) Louisiana, Texas, Arkansas, and Oklahoma, Isaac M. Cline, New Orleans, La., in charge. (3) Utah, Colorado, New Mexico, and Arizona, Julius M. Sherier, Denver, Colo., in charge. (4) California, Nevada, Washington, Oregon, and Idaho, Edward A. Beals, San Francisco, Calif., in charge. (5) The remainder of the United States, forecaster on duty (Edward H. Bowie or Charles L. Mitchell), Washington, D. C., in charge.

For the collection and distribution of climatological data, the United States, including Alaska, Porto Rico, and Hawaii, is divided into 45 sections, generally coextensive with States, which, with the names of the officials in charge and the section centers, are as follows:

Alabama: Patrick H. Smyth, Montgomery.
 Alaska: Melvin B. Summers, Juneau.
 Arizona: Robert Q. Grant, Phoenix.
 Arkansas: Harvey S. Cole, Little Rock.
 California: Edward A. Beals, San Francisco.
 Colorado: Julius M. Sherier, Denver.
 Florida: Alexander J. Mitchell, Jacksonville.
 Georgia: Charles F. von Herrmann, Atlanta.
 Hawaii: Lawrence H. Daingerfield, Honolulu.
 Idaho: Clinton E. Norquest, Boise.
 Illinois: Clarence J. Root, Springfield.
 Indiana: John H. Armington, Indianapolis.
 Iowa: Charles D. Reed, Des Moines.
 Kansas: Snowden D. Flora, Topeka.
 Kentucky: James L. Kendall, Louisville.
 Louisiana: Isaac M. Cline, New Orleans.
 Maryland and Delaware: James H. Spencer, Baltimore, Md.
 Michigan: Dewey A. Seeley, Lansing.
 Minnesota: Ulysses G. Purssell, Minneapolis.
 Mississippi: Robert T. Lindley, Vicksburg.
 Missouri: George Reeder, Columbia.
 Montana: William T. Lathrop, Helena.
 Nebraska: George A. Loveland, Lincoln.

Nevada: Henry F. Alps, Reno.
 New England: John W. Smith, Boston, Mass.
 New Jersey: G. Harold Noyes, Trenton.
 New Mexico: Charles E. Linney, Santa Fe.
 New York: Wilford M. Wilson, Ithaca.
 North Carolina: Lee A. Denson, Raleigh.
 North Dakota: Orris W. Roberts, Bismarck.
 Ohio: William H. Alexander, Columbus.
 Oklahoma: J. Pemberton Slaughter, Oklahoma City.
 Oregon: Edward L. Wells, Portland.
 Pennsylvania: George S. Bliss, Philadelphia.
 Porto Rico: Oliver L. Fassig, San Juan.
 South Carolina: Richard H. Sullivan, Columbia.
 South Dakota: Montello E. Blystone, Huron.
 Tennessee: Roscoe Nunn, Nashville.
 Texas: Bernard Bunnemeyer, Houston.
 Utah: J. Cecil Alter, Salt Lake City.
 Virginia: Edward A. Evans, Richmond.
 Washington: George N. Salisbury, Seattle.
 West Virginia: Henry C. Howe, Parkersburg.
 Wisconsin: William P. Stewart, Milwaukee.
 Wyoming: George W. Pitman, Cheyenne.

BUREAU OF ANIMAL INDUSTRY.

Chief, JOHN R. MOHLER; *Administrative Assistant*, CHARLES C. CARROLL; *Chief Clerk*, J. R. COHRAN.

The Bureau of Animal Industry has charge of the work of the department relating to the live-stock industry. In general it deals with the investigation, control, and eradication of diseases of animals, the inspection and quarantine of live stock, the inspection of meat and meat food products, and with animal husbandry and dairying.

Animal Husbandry Division. E. W. SHEETS, *Acting Chief*.

This division conducts investigations and experiments in animal husbandry. The division studies the breeding and feeding of farm animals and poultry, and passes upon the pure breeding of animals imported into the United States for breeding purposes. The division is engaged in work in cooperation with other Government departments and

with State agricultural experiment stations. It studies also poultry and egg production and methods of improving the quality of farm eggs.

Animal genetics.—Sewall Wright, in charge; O. S. Eaton.

Beef-cattle investigations.—E. W. Sheets, in charge; W. H. Black, V. V. Parr, A. T. Semple, E. W. McComas.

Horse and mule investigations.—John O. Williams, in charge; E. B. Krantz, S. R. Speelman.

Poultry investigations.—A. R. Lee, acting in charge; J. T. Quinn, S. Haynes, H. J. Macomber.

Sheep and goat investigations.—D. A. Spencer, in charge; M. W. Coll, C. G. Potts, M. J. Brandon.

Swine investigations.—E. Z. Russell, in charge; John Zeller, O. G. Hankins, S. S. Buckley, K. F. Warner.

U. S. experiment farm, Beltsville, Md.—Benjamin F. Brandon, in charge.

U. S. Morgan horse farm, Middlebury, Vt.—H. H. Reese, in charge.

U. S. sheep experiment station, Dubois, Idaho.—V. O. McWhorter, in charge.

U. S. poultry extension station, Glendale, Ariz.—N. E. Luce, in charge.

Biochemic Division. M. DORSET, *Chief.*

This division prepares tuberculin and mallein for distribution to veterinarians for use in official tests; conducts experiments with the object of obtaining vaccines and antitoxins for animal diseases; carries on researches concerning the causes of certain infectious diseases; takes part in the control of viruses, serums, toxins, and analogous products intended for use in the treatment of domestic animals; carries on experiments with dips and disinfectants; and assists in enforcing the insecticide act of 1910 by examining articles intended for use in combating insects and fungi which infest domestic animals. It carries on bacteriological and chemical research work relative to meat and meat food products in connection with the meat inspection.

Scientists in charge of sections.—J. A. Emery, assistant chief and member of the Insecticide and Fungicide Board; R. M. Chapin, in charge of dips and disinfectants; Ralph Hoagland, in charge of biochemical investigations of meats; W. B. Niles, in charge of hog-cholera field station, Ames, Iowa.

Dairy Division. C. W. LARSON, *Chief.*

This division investigates problems concerning the breeding, feeding, and management of dairy cattle, and the care and handling of milk and manufacture of its various products. Herds of dairy cattle are maintained as an aid to production studies, and research laboratories and a factory are available for the study of manufacturing processes. When new methods or new products have been perfected, these are introduced into the various States through appropriate State agencies. The division is charged also with details of administration of the laws concerning the inspection of factories making renovated or process butter.

Miscellaneous.—D. Stuart, dairy husbandry; H. T. Baldwin, editor; R. R. Graves, in charge, and M. H. Fohrman, assistant, dairy-cattle breeding; K. E. Parks and J. T. Bowen, dairy engineers; T. R. Pirtle, dairy statistician.

Research laboratories.—L. A. Rogers, in charge; W. R. Albus, S. H. Ayers, C. A. Cary, E. H. Daane, E. F. Deysher, F. R. Evans, S. Evans, C. M. Gere, A. J. Boyer, A. M. Hartman, G. E. Holm, W. T. Johnson, jr., Alan Leighton, K. J. Matheson, E. B. Meigs, C. S. Mudge, P. N. Peter, P. Rupp, J. M. Sherman, Wm. A. Turner, D. H. Warren, A. C. Weimar, E. O. Whittier, O. E. Williams, P. A. Wright, and Henry B. Lowe.

Introduction Section.—S. C. Thompson, in charge. This work includes: (1) Bull associations: J. G. Winkjer, H. H. Beier, J. B. Parker, H. E. Smith, W. E. Wintermeyer. (2) Cow-testing associations: A. J. Cramer, J. C. McDowell, H. C. Searles, Erwin Sutton, L. V. Wilson. (3) Milk utilization: Jessie M. Hoover, Florence Hall. (4) Creamery work: G. E. Braun, G. R. Campbell, W. L. Clevenger, L. S. Edwards, William White. (5) Cheese-factory work: E. F. Burton, E. R. Farnham, W. A. Graham, H. C. Jordan, L. H. Marlatt, W. S. Murdock, H. A. Mathiesen, G. N. Tobey, R. E. Hardell, H. L. Wilson. (6) Western office, Salt Lake City, Utah, J. E. Dorman, in charge; C. V. Castle, Chris. Johnsen, H. R. Lochry, R. J. Posson, C. S. Trimble.

Market milk investigations.—Ernest Kelly, in charge; J. B. Bain, C. J. Babcock, L. H. Burgwald, C. E. Clement, R. P. Hotis, C. S. Leete, R. S. Smith.

Beltsville farm.—T. E. Woodward, superintendent; H. T. Converse, assistant.

Experiments and demonstrations in live-stock production.—Iberia Live-Stock Farm, Jeanerette, La.; J. R. Quisenberry, superintendent; R. R. Graves.

Experiments in dairying and live-stock production in western United States.—R. R. Graves, J. B. Shepherd, Ardmore, S. Dak.; T. W. Moseley, Huntley, Mont.

Woodward field station Woodward, Okla.—C. J. Stauber.

Field Inspection Division. A. W. MILLER, *Chief*; G. W. POPE, *Assistant*; W. P. ELLENBERGER, *Assistant*.

This division, in cooperation with State authorities, is charged with the work of eradicating scabies in cattle and sheep and dourine in horses. It has supervision over the interstate transportation of live stock, including inspection, disinfection, certification, etc.; also the details of administering the 28-hour law governing the humane handling of live stock in transit; and the mallein testing of horses for interstate movement. The inspection and quarantine of imported animals with a view to excluding contagion, the management of the animal quarantine stations, and the inspection of live stock for export come under this division. The ships carrying exported animals are also inspected, and regulations as to fittings, equipment, ventilation, feed, water, attendants, etc., are enforced. The division also administers the sanitary regulations governing the importation of hides and skins, glue stock, hair, wool, and other animal by-products, hay, straw, forage, etc., and directs the tuberculin testing of cattle and the mallein testing of horses for export and import.

Inspectors in charge of scabies and dourine eradication in the field.—W. M. MacKellar, Sacramento, Calif.; J. C. Exline, Olympia, Wash.; F. E. Murray, Salt Lake City, Utah; F. L. Schneider, Albuquerque, N. Mex.; C. H. Hays, Lincoln, Nebr.; W. E. Howe, Denver, Colo.; H. H. Cohenour, Bismarck, N. Dak.; H. Grafke, Fort Worth, Tex.; H. M. Graefe, Topeka, Kans.; J. O. Wilson, Pierre, S. Dak.; Rudolph Snyder, Helena, Mont.; L. J. Allen, Oklahoma, Okla.

Division of Hog-Cholera Control. U. G. HOUCK, *Chief*; T. P. WHITE, *Assistant*.

The work has for its object the suppression and control of hog cholera. It is conducted in cooperation with the educational forces of agricultural colleges and State regulatory authorities legally charged with the investigation, control, and eradication of contagious and infectious diseases of live stock.

Inspectors in charge of hog-cholera control in the field.—A. L. Hirleman, Atlanta, Ga.; G. M. Paxton, Baton Rouge, La.; J. B. Hollenbeck, Bismarck, N. Dak.; G. W. Neff, Charleston, W. Va.; W. K. Lewis, Columbia, S. C.; I. K. Atherton, College Park, Md.; L. E. Davis, Columbus, Ohio; W. E. Howe, Denver, Colo.; F. H. Thompson, Des Moines, Iowa; M. Zurkow, Dover, Del.; H. Grafke, Fort Worth, Tex.; W. F. Biles, Frankfort, Ky.; Rudolph Snyder, Helena, Mont.; E. B. Haskin, Indianapolis, Ind.; H. L. Fry, Jackson, Miss.; Ralph Graham, Jefferson City, Mo.; H. M. Newton, Lansing, Mich.; C. H. Hays, Lincoln, Nebr.; W. E. Dodd, Little Rock, Ark.; J. T. Purcell, Madison, Wis.; H. C. Wilson, Troy, Ala.; E. I. Smith, Nashville, Tenn.; T. M. Owen, Norfolk, Va.; C. F. Harrington, Oklahoma, Okla.; F. D. Owen, Raleigh, N. C.; W. M. MacKellar, Sacramento, Calif.; F. E. Murray, Salt Lake City, Utah; James McDonald, Springfield, Ill.; L. E. Lyons, Tallahassee, Fla.; H. M. Graefe, Topeka, Kans.; W. A. Sullivan, Boise, Idaho; J. O. Wilson, Pierre, S. Dak.

Meat Inspection Division. R. P. STEDDOM, *Chief*.

The work of the Meat Inspection Division includes the ante-mortem and post-mortem inspection of cattle, sheep, swine, and goats slaughtered at establishments engaged in interstate or foreign commerce; the supervision of such establishments and of the various processes of preparing, curing, canning, packing, etc., so as to insure sanitary conditions, equipment, and methods; the laboratory examination of meat and products and all ingredients used in the preparation thereof; the condemnation and proper disposal of carcasses and products found to be diseased, unwholesome, or otherwise unfit for human food; the marking and certification of meats and products that have been inspected and passed; and the regulation and supervision of the interstate transportation, exportation, and importation of meats and meat food products.

Assistants.—George Ditewig, in charge of western division; A. J. Pistor, in charge of eastern division; W. H. Smith, in charge of exports, imports, transportation, and exemptions; R. H. Kerr, in charge of laboratories; G. H. Parks, expert in sanitation; F. W. Meyst, in charge of labeling; A. E. Harris, in charge of records.

A directory showing the number and location of establishments operating under meat inspection, and inspectors in charge is published.

Pathological Division. JOHN S. BUCKLEY, *Chief*.

This division conducts scientific investigations of animal diseases; carries on experiments with immunizing agents for the purpose of protecting animals against disease; cooperates with the State agricultural experiment stations with a view to combating diseases peculiar to the localities; determines pathological specimens referred to the division for diagnosis; and investigates effects of poisonous plants on live stock.

Scientific staff.—H. J. Washburn, senior bacteriologist; Robert J. Formad, pathologist; B. A. Gallagher, bacteriologist in charge of investigations concerning diseases of poultry; L. T. Giltner, in charge of investigations of miscellaneous diseases of animals; J. M. Buck, bacteriologist in charge of investigations in contagious abortion; G. T. Creech, assisting in contagious abortion investigations; H. W. Schoening, in charge of investigations in dourine and glanders; C. B. Breininger, W. S. Gochenour, Hubert Bunyea, Warren B. Shook, veterinary inspectors; W. N. Berg, physiologist; C. D. Marsh, physiologist in charge of investigations of stock poisoning by plants; A. B. Clawson, physiologist in poisonous-plant investigations; J. F. Couch, pharmacological chemist; G. C. Roe, assistant in poisonous-plant investigations; L. Enos Day, in charge of branch pathological laboratory at Chicago, Ill.; George Byron Morse, in charge of branch pathological laboratory at South Omaha, Nebr.; George W. Stiles, in charge of branch pathological laboratory, Denver, Colo.

Tick Eradication. R. A. RAMSAY, *Chief*.

This division, in cooperation with State live-stock sanitary organizations in the Southern States, is charged with the work of eradicating ticks which infest cattle and transmit disease. It also has supervision of the interstate movement of cattle from the area under quarantine for cattle ticks.

Inspectors in charge of tick eradication in the field.—L. J. Allen, Oklahoma, Okla.; Harry Grafke, Fort Worth, Tex.; W. A. McDonald, Little Rock, Ark.; George M. Paxton, Baton Rouge, La.; R. E. Jackson, Birmingham, Ala.; J. A. Barger, Jackson, Miss.; S. J. Horne, Atlanta, Ga.; W. K. Lewis, Columbia, S. C.; Hartwell Robbins, Washington, N. C.; C. J. Becker, traveling assistant, Birmingham, Ala.

Tuberculosis Eradication Division. J. A. KIERNAN, *Chief*; A. E. WIGHT, *Assistant*.

This division, in cooperation with State authorities, is charged with the work of eradicating tuberculosis of farm animals. It has supervision over the tuberculin testing of cattle for interstate movement.

Inspectors in charge of tuberculosis eradication in the field.—H. B. Leonard, Albany, N. Y.; F. L. Schneider, Albuquerque, N. Mex.; A. L. Hirdeman, Atlanta, Ga.; J. B. Reidy, Augusta, Me.; T. A. Ladson, Baltimore, Md.; C. J. Becker, Birmingham, Ala.; H. H. Cohenour, Bismarck, N. Dak.; W. A. Sullivan, Boise, Idaho; E. A. Crossman, Boston, Mass.; George W. Neff, Charleston, W. Va.; John T. Dallas, Cheyenne, Wyo.; J. J. Lintner, Chicago, Ill.; W. K. Lewis, Columbia, S. C.; Leo E. Davis, Columbus, Ohio; W. E. Howe, Denver, Colo.; F. H. Thompson, Des Moines, Iowa; H. Grafke, Fort Worth, Tex.; W. F. Biles, Frankfort, Ky.; P. E. Quinn, Harrisburg, Pa.; Rudolph Snyder, Helena, Mont.; R. L. Smith, Hartford, Conn.; E. B. Haskin, Indianapolis, Ind.; H. L. Fry, Jackson, Miss.; Ralph Graham, Jefferson City, Mo.; T. S. Rich, Lansing, Mich.; Clark H. Hays, Lincoln, Nebr.; W. E. Dodd, Little Rock, Ark.; J. S. Healy, Madison, Wis.; A. J. De Fosset, Montpelier, Vt.; E. I. Smith, Nashville, Tenn.; R. W. Tuck, New Orleans, La.; C. F. Harrington, Oklahoma, Okla.; J. C. Exline, Olympia, Wash.; J. O. Wilson, Pierre, S. Dak.; Sam B. Foster, Portland, Oreg.; Paul Vaughn, Raleigh, N. C.; R. E. Brookbank, Richmond, Va.; W. M. MacKellar, Sacramento, Calif.; W. J. Fretz, St. Paul, Minn.; F. E. Murray, Salt Lake City, Utah; J. G. Fish, Tallahassee, Fla.; H. M. Graefe, Topeka, Kans.; W. G. Middleton, Trenton, N. J.

Division of Virus-Serum Control. D. I. SKIDMORE, *Chief*; R. E. HOLM, *Assistant*.

This division is charged with the enforcement of the virus-serum-toxin act of 1913, which regulates the preparation, sale, barter, exchange, shipment, and importation of all viruses, serums, toxins, and analogous products intended for use in the treatment of domestic animals. United States veterinary licenses are issued for the preparation of veterinary biological products at domestic establishments, and United States veterinary permits are issued to importers of such products. Inspections are made of the establishments of all firms making application for license. This inspection covers the construction and equipment of the plant, the methods employed in the preparation of products, and the manner of keeping records. General supervision over the preparation and testing of all products is maintained in order to insure, so far as possible, that the products are not worthless, contaminated, dangerous, or harmful within the meaning of the act. The division also cooperates with the Bureau of Chemistry in examination of proprietary hog-cholera preparations.

Zoological Division. B. H. RANSOM, *Chief*.

This division investigates diseases of parasitic origin, collects and describes animal parasites of all kinds, determines such parasites as are sent to the bureau for identification, and keeps a card index of animal parasites and a bibliography of literature relating to them.

Scientific staff.—Maurice C. Hall, senior zoologist; Albert Hassall, assistant zoologist; Edward A. Chapin, Eloise B. Cram, junior zoologists; Marion Imes, in charge of investigations on the treatment and control of external parasites, Kansas City, Kans.; Cooper Curtice, in charge of experiments in the eradication and control of internal parasites of sheep, Vienna, Va.; H. B. Raffensperger, zoological investigations relating to meat inspection and investigations on internal parasites of hogs, Chicago, Ill.

Experiment Station. E. C. SCHROEDER, *Superintendent*.

The experiment station of the bureau is located at Bethesda, Md. It conducts investigations of animal diseases with a view to their control and eradication and their bearing on the public health. A small farm is maintained in such a manner as to provide the other divisions of the bureau with facilities for making observations for which large domestic animals are needed. The work of the station consists of both independent original investigations and investigations in cooperation with and supplemental to those of the other divisions.

W. E. Cotton, assistant superintendent; A. B. Crawford, scientific assistant.

Editorial Office. D. S. BURCH, *Editor*.

This office edits manuscripts prepared in the bureau, compiles and prepares information and material for publication and other uses, writes articles and reports, attends to correspondence relating to publications and miscellaneous subjects, makes translations, reads proof, and conducts the "better-sires" campaign and keeps the records thereof.

FOREST SERVICE.

Forester, WILLIAM B. GREELEY; *Associate Forester*, EDWARD A. SHERMAN.

The Forest Service administers the national forests, studies forest conditions, forest management, and methods of forest utilization, investigates the mechanical and physical properties of woods and the processes employed in the manufacture of forest products, and gathers information concerning the needs of the various wood-using industries and the relation of forests to the public welfare generally.

The work of the Forest Service is organized under the office of the Forester, 7 branches, 8 districts, and 145 national forests.

Office of the Forester.

Finance and Accounts. H. I. LOVING, *Chief*.

This office is in charge of all fiscal affairs pertaining to the Forest Service—general bookkeeping, controlling accounts, allotments, and liabilities, and all operations of fiscal agents.

Branch of Operation.

ROY HEADLEY, *Assistant Forester in Charge*; PAUL D. KELLETER, *Forest Inspector*; G. G. ANDERSON, *Assistant in Personnel*; EVAN W. KELLEY, *Inspector*; G. M. RANDAL, *Maintenance*.

This branch has general supervision of finances, personnel, quarters, equipment and supplies, and of fire protection and permanent improvement work on the national forests.

Supply Depot, Ogden, Utah. J. G. FALCK, *Property Assistant*.

Branch of Forest Management.

E. E. CARTER, *Assistant Forester in Charge*; HARRY IRION, *Administrative Assistant*.

Western Division. J. F. PRESTON, *Forest Inspector in Charge*; I. F. ELDBEDGE, *Forest Inspector*.

Eastern Division. J. G. PETERS, *Forest Inspector in Charge*; C. R. TILLOTSON, J. A. MITCHELL, and G. T. BACKUS, *Forest Examiners*.

Cooperation with Private Timberland Owners. AUSTIN CARY, *Logging Engineer*; W. R. MATTOON, *Forest Examiner*.

Through the district foresters the Branch of Forest Management has supervision of timber sales, timber trespass, and reforestation on the national forests, and of working plans for the administration of their timber resources. It cooperates with other departments of the Federal Government, with States, and with private owners, including farmers, in the practice of forestry on lands outside national forests, including the supervision of expenditures for fire protection under the act of March 1, 1911, on the watersheds of navigable streams. Its divisions deal respectively with the forests west and east of the Great Plains.

Branch of Grazing.

WILL C. BARNES, *Assistant Forester in Charge*; C. E. RACHFORD, *Inspector of Grazing*.

The Branch of Grazing has, through the district foresters, general supervision of the range in the national forests. When the number of stock to be allowed on each national forest has been determined by the Secretary of Agriculture, the Branch of Grazing establishes the year-long grazing fee to be charged for each class of stock. It also conducts investigations concerning the best use of the forage resources of the national forests.

Grazing Studies. WILLIAM R. CHAPLINE, *Inspector of Grazing*; CLARENCE L. FORSLING, *Grazing Examiner*.

This office deals with investigations aimed to bring about more efficient utilization by live stock of the annual forage crop produced on ranges within the national forests. It is also directing the survey and type classification of range lands within the national forests.

Forage Investigations. WILLIAM A. DAYTON, *Plant Ecologist*; Miss MARY T. KELEHER, *Plant Mounter*.

Range Reserve Experiments. Jornada Reserve: ENOCH W. NELSON, *Grazing Examiner*, Las Cruces, N. Mex.; JACOB D. SCHOELLER, *Grazing Assistant*. Santa Rita Reserve: MAT J. CULLEY, *Grazing Assistant*, Tuscon, Ariz.

Great Basin Experiment Station (Manti National Forest). ARTHUR W. SAMPSON, *Director*; H. E. MALMSTEN, *Grazing Examiner*.

Branch of Lands.

L. F. KNEIPP, *Assistant Forester in Charge*; D. W. MCGOWAN, *Inspector of Lands*.

This branch has general supervision of all matters relating to the establishment and adjustment of national forest boundaries, the application of the public-land laws to the lands within the national forests, the acquisition of lands under the Weeks law, and the uses of national forest lands other than timber sales, grazing, and water power.

Land Adjustment. W. J. MANGAN, *Executive Assistant*.

Examination and classification of lands within the national forests to determine their value for forest purposes. Action on occupancy trespass. Preparation of reports and agreements in land exchanges.

Occupancy. CHARLES H. SQUIRE, *Inspector of Lands*.

This office has general supervision of all work pertaining to the examination of and reporting on lands within the national forests, title to which is sought under the public land laws. Where the acquisition of title is opposed, the office cooperates with the office of the Solicitor in procuring necessary evidence. The office also has general charge of all matters relating to the occupancy of national forest land for any purpose except grazing and water power. This includes the granting of rights of way for railroads, irrigation projects, etc.

Acquisition of Lands under the Weeks Law. W. W. ASHE, *Forest Inspector*.

This office through the district foresters supervises the acquisition of lands under the act of March 1, 1911, including determination of areas where lands should be purchased, receipt of proposals, appraisals of land, negotiations for purchase, preparation of reports to National Forest Reservation Commission, surveys, condemnation proceedings, and all other steps necessary for consummation of purchases.

Branch of Research.

EARLE H. CLAPP, *Assistant Forester in Charge*; RAPHAEL ZON, *Forest Economist*; WARD SHEPARD, *General Assistant*; HARRY IRION, *Administrative Assistant*.

This branch has general supervision, either directly or through the district foresters, over investigations in dendrology, forest management, forest protection, forest utilization, and forest products. It also collects statistics relating to our forest resources and their utilization, and studies general economic questions bearing on forestry, and forest administration.

Dendrology. GEORGE B. SUDWORTH, *Dendrologist*.

This office is charged with investigations relating to the life history of native and exotic forest trees, their distribution, distinguishing characteristics, habits, and associations in the formation of forests, etc.; also the selection, adaptation, and care of trees for shade and ornamental purposes.

Forest Investigations. J. KITTREDGE, JR.

The Office of Forest Investigations deals mainly with the scientific problems underlying the management of forests. It directs the work at the silvicultural forest experiment stations, and investigates the factors controlling the distribution of forests and forest trees, their protection from fire, the relation of forest to stream flow and climate, the conditions under which natural regeneration of cut-over, burned-over, or otherwise denuded areas takes place, and the species and methods adapted to use in artificial reforestation under varying site conditions. It also conducts investigations of farm woodlands and the best methods of handling them. The library of the Forest Service, containing over 21,000 books and pamphlets on forestry and allied subjects, is connected with the office.

Forest measurements.—R. M. Brown.

Library.—Helen E. Stockbridge.

Compilation.—Elizabeth B. Leech.

Forest Experiment Stations.

Cloquet (in cooperation with the University of Minnesota). ———, Cloquet, Minn.

Priest River.—R. H. Weidman, Julius A. Larsen, and H. T. Gisborne, Missoula, Mont.; W. G. Wahlenberg, Haugan, Mont.

Fremont, Pike National Forest.—C. G. Bates, J. Roeser, jr., and Paul L. Ginter-Colorado Springs, Colo.

Wagon Wheel Gap, Rio Grande National Forest (in cooperation with the Weather Bureau).—Edwin H. Jones, Wagon Wheel Gap, Colo.

California District, Branch of Research.—E. N. Munns, San Francisco.

Fort Valley, Coconino National Forest.—G. A. Pearson, Herman Krauch, Flagstaff, Ariz.; E. N. Munns, San Francisco, Calif.

Wind River, Columbia National Forest.—Julius V. Hoffman, Stabler, Wash.

Appalachian.—E. H. Frothingham, E. F. McCarthy, C. F. Korstian, and F. W. Haasis, Asheville, N. C.

Southern.—R. D. Forbes, Lenthall Wyman, W. R. B. Hine, and F. H. Miller, 323 Customhouse, New Orleans, La.

Forest Products Laboratory. CARLILE P. WINSLOW, *Director*; ———, *Assistant Director*; H. D. TIEMANN, *Dry Kiln Specialist*.

The forest-products laboratory is maintained in cooperation with the University of Wisconsin, at Madison. It conducts the following classes of investigations: (1) Investigations to determine the mechanical, physical, and chemical properties of forest products; (2) studies of fundamental principles underlying the seasoning and kiln drying of wood, its preservative treatment, its use in plywood and laminated construction, its use for the production of fiber products (pulp, paper, fiber board, etc.), and its use in the manufacture of alcohol, turpentine, rosin, tar, and other chemical products; (3) experimental work in cooperation with commercial operators to verify laboratory experiments on a commercial scale; (4) cooperation with individuals or companies to assist them in applying principles and processes of proved commercial value.

Publication of results.—Ray C. Tuttle, Edward P. Ancona, Erich F. Stuewe, E. V. Jotter, Francis J. Champion.

Derived products.—L. F. Hawley, Howard N. Calderwood, C. E. Rupp, Ernest Bate-man, Carlton Henningsen, E. C. Sherrard, G. W. Blanco, W. H. Gauger, Geo. J. Ritter, L. C. Fleck.

Pulp and paper.—John D. Rue, Sidney D. Wells, R. H. Grabow, J. A. Staidl, R. N. Miller, W. H. Swanson, C. E. Curran, R. I. Drake, M. W. Bray, T. M. Andrews, E. R. Schafer.

Timber mechanics.—J. A. Newlin, L. J. Markwardt, T. R. C. Wilson, John M. Gahagan, R. F. Luxford, R. P. A. Johnson, Geo. E. Heck, H. S. Grenoble, James R. McAtter, B. H. Paul, G. W. Trayer, A. A. Plaskett, W. H. Sacket, W. B. Anthony, J. G. Woodburn, I. B. Lanphier, T. A. Carlson.

Timber physics.—Rolf Thelen, J. S. Mathewson, J. D. Studley, W. K. Loughborough, A. Herman, A. C. Knauss, E. C. Peck.

Wood technology.—A. Koehler, Miss Eloise Gerry, Miss Gertrude Griffin, M. C. Jensen.

Wood preservation.—George M. Hunt, A. L. Helm, T. R. Truax, R. M. Wirka, W. L. Jones, Alfred C. Lindauer, C. A. Harrison, M. E. Dunlap, J. D. MacLean, Carl E. Muller.

Industrial investigations.—Arthur T. Upson, D. G. White, E. P. Ivory, A. O. Benson, R. M. Volkert, L. N. Erickson, J. I. Steel, J. W. Medley.

Pathology (in cooperation with Bureau of Plant Industry).—R. H. Colley, C. J. Humphrey, E. E. Hubert, Miss C. Audrey Richards, Miss M. W. Taylor, Miss A. M. Waterman.

Laboratory operation.—C. V. Maudlin, Charles P. Juckem, Miss Regina Tormey, B. L. Nelson, M. E. Diemer, L. R. Denicke, Miss S. D. Kinney.

Accounts.—W. E. Thompson.

Forest Products. H. S. BETTS, W. D. BRUSH, R. K. HELPHENSTINE, JR., JOHN R. CUNO.

This office studies the utilization of forest products in the various wood-using industries and brings the results of these studies to the attention of manufacturers and other wood users. It also arranges for cooperation with the War and Navy Departments in the solution of military problems involving the use of wood and other forest products, and assists other Government departments in securing the most economical and effective use of wood in the great variety of forms in which it is purchased.

Economic Investigations. ———, L. S. MURPHY, W. N. SPARHAWK, R. V. REYNOLDS, A. H. PIERSON, C. W. BOYCE.

This office conducts economic studies of the lumber, pulp and paper, and other wood-using industries, including the character and extent of the forest resources from which they derive their supplies of raw material, present and prospective demands on these, labor and market conditions, transportation problems, prices, forest taxation, relation between forest management and community development, etc.

Branch of Engineering.

T. W. NORCROSS, *Chief Engineer in Charge.*

This branch has general supervision of engineering matters, the administration of water-power uses, and preparation of road-development plans in connection with national forest administration, and cooperates with the other branches on plans, specifications, and technical details.

Roads. FRANK E. BONNER, *Assistant Chief Engineer.*

General administration and field inspection of road work under the 10 per cent appropriation, section 8 of Federal aid road act, the Federal forest road construction act, and the Forest Road section of the Federal highway act. Examination and coordination of road plans for the several States, approval of road maps, plans and specifications, and preparation of cooperative agreements with local authorities.

Water Power. T. W. NORCROSS, *Chief Engineer.*

General administration and field inspection of water power and transmission line uses. Reports upon applications for easements affecting national forest lands, and cooperative work with Federal Power Commission. Examination of proposed alienations, eliminations, additions, and withdrawals where water power is involved.

Maps and Surveys. G. H. LAUTZ, *Assistant Chief Engineer*; C. A. KOLB, *Geographer*; GRANT B. BRUCE, *Atlas*; J. M. WITHROW, *Drafting*; T. S. BROCK, *Engraving*; E. S. SHIPP, *Photography*.

General administration and field inspection of land, boundary, and other surveys. Establishment of standards in instruments and methods of survey. Supervision and field inspection of mapping and drafting, and maintenance of forest folios and map files.

Branch of Public Relations.

HERBERT A. SMITH, *Assistant Forester in Charge*; W. I. HUTCHINSON, *Information*; C. M. BALLARD, *Publication*; C. A. LINDSTROM, *Exhibits and Motion Pictures*; E. BURKHOLDER, *Printing*.

The purpose of this branch is to devise and develop means of contact with the public, to the end that the services which the Forest Service is prepared to render may be better known and more generally made use of; to promote widespread diffusion of useful knowledge relating to forests, forestry, and forest products, through all available agencies; to direct, under the Forester, the publication policy of the Forest Service; and to see that all publications issued conform to the highest possible standards of technical excellence and practical usefulness. Particular attention is given to enlisting the interest and cooperation of the public in the prevention and control of forest fires, and in the extension of the practice of forestry by private owners. The branch also seeks to promote wide use of the national forests by directing the preparation and diffusion of information having this end in view.

The chief projects are:

(1) General supervision of the publication plans of the Service, and of all printing expenditures; editorial review of all manuscripts intended for official publication, by

the department or through outside agencies; review of forms; and handling of all printing requests and other communications with the departmental Division of Publications, and of proofs.

(2) The development and execution of plans for the use in primary and secondary education of information and illustrative material concerning forestry, and the preparation of suitable material for this purpose.

(3) The collection and maintenance of photographic material for educational and illustrative purposes; the development, maintenance, and use of the lantern-slide collection; requests for authorization of public addresses and lectures by members of the Service, and records of addresses and lectures made.

(4) The development, maintenance, and use of exhibit material illustrative of forestry.

(5) Motion-picture activities of the Forest Service.

(6) Relations with the press, and the supplying of official information to or intended for newspaper and magazine writers and publishers.

Districts.

DISTRICT 1.—NORTHERN DISTRICT.

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota. Office, Federal Building, Missoula, Mont.

FRED MORRELL, *district forester*.

Public relations.—Theodore Shoemaker and K. D. Swan, forest examiners.

Accounts.—O. M. Wold, chief of office and fiscal agent; Lee Stratton, district fiscal agent.

Operation.—L. C. Stockdale, assistant district forester; G. I. Porter, executive assistant; E. F. White, personnel training and studies; Henry Wold, field audit.

Fire protection.—Howard R. Flint, forest examiner.

Improvements.—D. L. Beatty and P. A. Wohlen, national forest examiners; R. B. Adams, telephone engineer.

Law enforcement.—P. J. O'Brien.

State cooperative fire protection under the Weeks law.—R. N. Cunningham.

Maintenance.—O. C. Bradeen.

Forest Management.—Elers Koch, assistant district forester.

Logging engineering.—J. W. Girard, U. S. Swartz.

Timber sales.—Field supervision, C. E. Knouf, lumberman.

Planting.—D. S. Olson, Haugan, Mont., planting assistant. Savenac Nursery, G. W. Jones, Haugan, Mont., forest examiner.

Products.—S. V. Fullaway, jr., F. J. Klobucher, and C. N. Whitney, forest examiners.

Forest investigations.—W. C. Lowdermilk, forest examiner.

Timber surveys.—F. K. Stewart, surveyor-draftsman.

Grazing.—Glen A. Smith, assistant district forester; L. C. Hurt, inspector of grazing; J. B. Taylor, deputy supervisor, range appraisal.

Studies.—L. C. Hurt, inspector of grazing; H. W. Elofson, grazing assisiant.

Lands.—M. H. Wolff, forest examiner; Jean Ewen, surveyor-draftsman; J. B. Seeley, office assistant.

Land exchange.—Harry G. Ade, national forest examiner.

Land classification.—Harry G. Ade.

Claims.—C. A. McElroy, land examiner.

Engineering.—F. E. Thieme, district engineer.

Maps and surveys.—J. B. Yule.

Roads.—F. E. Thieme, H. A. Calkins.

Water power.—E. W. Kramer.

National Forests.

IDAHO.

Clearwater.—Lloyd G. Hornby, supervisor, Orofino; Paul H. Gerrard, fire assistant; Claud E. Sutton, forest examiner.

Coeur d'Alene.—Charles K. McIlarg, supervisor, Coeur d'Alene; Philip Neff, lumberman; James P. Brooks, national forest examiner; Frank L. Tobey and M. I. Bradner, forest assistants.

Kaniksu.—Joseph A. Fitzwater, supervisor, Sandpoint; R. A. Phillips, deputy supervisor; Charles R. Clark, forest examiner; Frank Foltz, fire assistant; Howard Drake, lumberman.

Nezperce.—Adrian C. Adams, supervisor, Grangeville; Clyde P. Fickes and Thomas Crossley, deputy supervisors; A. J. Devan, fire assistant.

Pend Oreille.—Joseph A. Fitzwater, supervisor, Sandpoint; John E. Breen, deputy supervisor; Ray R. Fitting, fire assistant; G. M. De Jarnette, forest assistant.

Selway.—Frank J. Jefferson, supervisor, Kooskia; Francis T. Carroll, fire assistant; C. F. Makibbin, forest assistant.

St. Joe.—Charles K. McHarg, supervisor, Coeur d'Alene; Wallace W. Weber, deputy supervisor; Ashley J. Roche, fire assistant.

MONTANA.

Absaroka.—Ernest W. Shaw, supervisor, Livingston; Ernest T. Wolf, forest examiner.
Beartooth.—R. Trevor Furgeson, supervisor, Billings; William L. Lay, deputy supervisor.

Beaverhead.—John B. Somers, supervisor, Dillon; J. W. Stanton, deputy supervisor; R. W. Beeson, grazing assistant.

Bitterroot.—J. W. Lowell, supervisor, Hamilton; William M. Nagel, forest examiner; J. P. Brown, fire assistant.

Blackfeet.—Leslie F. Vinal, supervisor, Kalispell; C. J. Hash, fire assistant; Remington Ellis, forest assistant.

Cabinet.—James F. Ryan, supervisor, Thompson Falls; John S. Bowen, fire assistant; I. V. Anderson, forest assistant.

Custer.—James C. Whitham, supervisor, Miles City; Wm. E. Lockhart, deputy supervisor; E. W. Hartwell, forest examiner.

Deerlodge.—Fay G. Clark, supervisor, Butte; William L. Baldwin and Thomas A. Clapp, deputy supervisors; John C. Ketrledge, forest examiner.

Flathead.—Joseph D. Warner, supervisor, Kalispell; Kenneth Wolfe and Harold L. Redlingshafer, deputy supervisors; Clyde S. Webb and Alfred L. Rossman, lumbermen.

Gallatin.—Burr W. Clark, supervisor, Bozeman; C. B. Swin, national forest examiner; D. C. Poshusta, grazing assistant.

Helena.—Arthur H. Abbott, supervisor, Helena; Guy M. Brandborg, deputy supervisor; Wellington I. White, forest examiner.

Jefferson.—Wilford D. Willey, supervisor, Great Falls; Edward J. Yeomans and Adolph Weholt, deputy supervisor.

Kootenai.—Arthur M. Baum, supervisor, Libbey; Justin K. Dwinelle, fire assistant; Ralph A. Fletcher, forest assistant.

Lewis and Clark.—Eldon H. Myrick, supervisor, Choteau; William M. Rush, deputy supervisor.

Lolo.—Wilfred W. White, supervisor, Missoula; Ross A. Williams, forest assistant.

Madison.—Walter J. Derrick, supervisor, Sheridan; Wm. J. McCarthy, forest assistant.

Missoula.—Rutledge Parker, supervisor, Missoula; John H. Clack, fire assistant.

DISTRICT 2.—ROCKY MOUNTAIN DISTRICT.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

ALLEN S. PECK, *district forester*.

Public relations.—H. N. Wheeler.

Accounts.—Q. R. Craft, chief of office and fiscal agent; Joel I. Buckner, district fiscal agent.

Operation.—C. M. Granger, assistant district forester; John McLaren, fire protection; H. R. Kylie, telephone engineer and improvements; Peter Keplinger, training.

State cooperative fire protection under the Weeks law.—South Dakota: John McLaren. Michigan, Minnesota, and Wisconsin: Crosby A. Hoar, Torrey Building, Duluth, Minn.

Maintenance.—C. A. Neeper.

Forest Management.—M. W. Thompson, assistant district forester; J. A. Donery, lumberman.

Timber surveys and insect control.—W. J. Pearce, forest examiner.

Planting.—Fred R. Johnson.

Grazing.—John H. Hatton, assistant district forester; Lynn H. Douglas, inspector of grazing; Frank H. Rose, grazing assistant.

Studies.—Lynn H. Douglas, inspector of grazing; Jesse M. Mann, grazing examiner.

Lands.—C. J. Stahl, assistant district forester; Thos. M. Moorman, assistant; Arthur H. Carhart, recreation engineer.

Engineering.—Fred D. Mendenhall, district engineer; J. L. Brownlee, assistant district engineer.

Maps and surveys.—J. Burgess.

Roads.—Fred D. Mendenhall; J. L. Brownlee.

Water power.—Fred D. Mendenhall.

National Forests.

COLORADO.

Arapaho.—J. V. Leighou, supervisor, Hot Sulphur Springs; L. C. Anderson, forest assistant.

Battlement.—John W. Spencer, supervisor, Grand Junction.

Cochetopa.—Fred B. Agee, supervisor, Salida; Clarence E. Taylor, forest examiner.

Colorado.—William R. Krutzer, supervisor, Fort Collins; Lee P. Brown, forest assistant.

Gunnison.—Theodore Krueger, supervisor, Gunnison.

Holy Cross.—Alve G. Richey, supervisor, Glenwood Springs; G. M. Hunter, deputy supervisor.

Leadville.—Harold L. Borden, supervisor, Leadville; Frank E. Hausherr, forest assistant.

Montezuma.—A. F. C. Hoffman, supervisor, Mancos; Robert H. Easterbrooks, forest examiner; Chester A. Lee, grazing assistant.

Pike.—Ress Philips, supervisor, Denver; Everard Keithley, forest examiner; Jacob Roeser, jr., forest assistant. Monument Nursery, W. H. Schrader, forest planting assistant, Monument.

Rio Grande.—R. E. Clark, supervisor, Monte Vista; Walter F. Bowers, deputy supervisor.

Routt.—Ray Peck, supervisor, Steamboat Springs; Charles H. Vaux, forest assistant.

San Isabel.—Albin G. Hamel, supervisor, Pueblo; S. E. Deering, deputy supervisor.

San Juan.—H. Earl French, supervisor, Durango; Charles B. Mack, deputy supervisor.

Uncompahgre.—Harry H. French, supervisor, Delta.

White River.—James A. Blair, supervisor, Glenwood Springs; Harry D. Cochran, forest assistant.

MICHIGAN.

Michigan.—R. G. Schreck, supervisor, East Tawas. Beal Nursery, East Tawas.

MINNESOTA.

Minnesota.—G. E. Marshall, supervisor, Cass Lake; Harry D. Petheram, forest assistant, Cass Lake Nursery.

Supervisor.—C. A. Dahlgren, supervisor, Ely; Wm. L. Barker, jr., forest assistant.

NEBRASKA.

Nebraska.—Jay Higgins, supervisor, Halsey; Morton Nursery, Nenzel. Bessey Nursery, Harry C. Turner, forest planting assistant, Halsey.

SOUTH DAKOTA.

Black Hills.—George A. Duthie, supervisor, Deadwood; N. E. Peterson, lumberman.

Harney.—James F. Conner, supervisor, Custer; Cyril B. Webster, forest assistant.

WYOMING.

Bighorn.—E. W. Tinker, supervisor, Sheridan; P. V. Woodhead, deputy supervisor.

Hayden.—James Blackhall, supervisor, Encampment.

Medicine Bow.—Huber C. Hilton, supervisor, Laramie; K. J. Helmick, lumberman; James M. Walley, forest assistant.

Shoshone.—Andrew Hutton, supervisor, Cody.

Washakie.—Arthur M. Cook, supervisor, Lander; E. A. Johnson, forest assistant; E. H. Peck, lumberman.

DISTRICT 3.—SOUTHWESTERN DISTRICT.

Arizona and New Mexico. Offices, Gas and Electric Building, Albuquerque, N. Mex.
FRANK C. W. POOLER, *district forester.*

Accounts.—Albert Morris, chief of office and fiscal agent; S. H. Busch, district fiscal agent.

Operation.—Aldo Leopold, assistant district forester; James F. Mullen, national forest examiner, assistant chief.

Maintenance.—H. B. Hammond, national forest examiner.

Forest Management.—R. E. Marsh, assistant district forester; D. M. Lang, lumberman; Quincy Randles, forest examiner.

W. H. Long, consulting pathologist, Albuquerque, N. Mex.

Grazing.—John Kerr, assistant district forester; Paul. H. Roberts, inspector of grazing C. K. Cooperrider, grazing examiner.

Studies.—M. W. Talbot, grazing examiner.

Reconnaissance.—H. O. Cassidy and R. W. Hussey, grazing assistants.

Lands.—John D. Jones, assistant district forester.

Engineering.—C. A. Long, district engineer.

Maps and surveys.— —.

Roads.—C. A. Long. Minor Road Construction and Surveys; R. L. Hughes.

Water power.—C. A. Long.

Public Relations.—Joseph C. Kircher, assistant district forester.

National Forests.

ARIZONA.

Apache.—R. J. Selkirk, supervisor, Springerville; A. W. Voigt, supervisor.

Coconino.—E. G. Miller, supervisor, Flagstaff; J. A. Adams, supervisor; L. R. Lessel, national forest examiner; M. Westveld, forest examiner.

Coronado.—H. G. Calkins, supervisor, Tucson; F. L. W. Grubb, supervisor; C. W. McKenzie, deputy supervisor.

Crook.—T. T. Swift, supervisor, Safford.

Prescott.—H. Basil Wales, supervisor, Prescott; Robert Munro, national forest examiner.

Sitgreaves.—T. C. Hoyt, supervisor, Snowflake; Robert C. Salton, forest assistant.

Tonto.—W. H. Goddard, supervisor, Roosevelt; F. L. Kirby, supervisor.

Tusayan.—James A. Scott, supervisor, Williams; G. W. Kimball, forest examiner.

NEW MEXICO.

Carson.—E. W. Loveridge, supervisor, Taos; C. R. Dwire, national forest examiner; Evan W. Hadley, forest assistant.

Datil.—A. H. Douglas, supervisor, Magdalena; S. F. Wilson, forest examiner; W. J. Anderson, national forest examiner.

Gila.—Frederic Winn, supervisor, Silver City; L. J. Putsch, supervisor; H. Norton Cope, supervisor.

Lincoln.—O. F. Arthur, supervisor, Alamogordo; Simeon Strickland, lumberman; H. D. Burrall, forest examiner.

Manzano.—K. C. Kartchner, supervisor, Albuquerque; C. H. Kissam, national forest examiner.

Santa Fe.—Frank E. Andrews, supervisor, Santa Fe; M. F. Pincett, deputy supervisor; W. J. Doherty, national forest examiner; Rex King, forest examiner.

DISTRICT 4.—INTERMOUNTAIN DISTRICT.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

R. H. RUTLEDGE, *district forester.*

Public relations.—F. S. Baker.

Accounts.—Homer A. Seip, chief of office and fiscal agent; A. C. Wycoff, district fiscal agent.

Operation.—Chas. D. Simpson, assistant district forester; John Raphael, minor roads, trails, and improvements; Thomas V. Pearson, administrative assistant.

State cooperative fire protection under the Weeks law.—Charles D. Simpson. I. H. Nash, State land commissioner, Boise, Idaho, collaborator.

Maintenance.—W. B. Crites.

Forest Management.—C. B. Morse, assistant district forester; S. S. Stewart, forest examiner.

Grazing.—C. N. Woods, assistant district forester; Ernest Winkler, inspector of grazing.

Studies.—D. A. Shoemaker, grazing examiner. Fred P. Cronemiller, jr., and Thos. Lommasson, grazing assistants.

Lands.—R. E. Gery acting assistant district forester; S. B. Locke, forest examiner assistant.

Engineering.—J. P. Martin, district engineer; F. J. Ryder, administrative assistant.
Maps and surveys.—M. S. Wright.
Roads.—J. P. Martin; H. G. McPheters and R. A. Brown, assistants.
Water power.—J. P. Martin.

National Forests.

ARIZONA.

Kaibab.—J. C. Roak, supervisor, Kanab, Utah.

IDAHO.

Boise.—E. C. Shepard, supervisor, Boise; E. Grandjean, deputy supervisor.
Caribou.—Earl C. Sanford, supervisor, Montpelier; Robert W. Strong, deputy supervisor.
Challis.—David Laing, supervisor, Challis; Charles C. Shaw, ranger.
Idaho.—L. F. Watts, supervisor, McCall; William C. McCormick and Andrew S. Casner, deputy supervisors.
Lemhi.—C. F. Evans, supervisor, Mackay.
Minidoka.—R. D. Garver, supervisor, Burley; J. W. Stokes, supervisor; T. G. Taylor and D. M. Rustay, forest assistants.
Payette.—Guy B. Mains, supervisor, Emmett; F. S. Moore, supervisor; Francis Wallis, deputy supervisor.
Salmon.—S. C. Scribner, supervisor, Salmon; E. R. Renner, deputy supervisor.
Sawtooth.—M. S. Benedict, supervisor, Hailey.
Targhee.—S. W. Stoddard, supervisor, St. Anthony; David A. Arrivee, supervisor; John N. Kinney, supervisor.
Weiser.—W. B. Rice, supervisor, Weiser; O. W. Mink, deputy supervisor.

NEVADA.

Humboldt.—C. E. Favre, supervisor, Elko; Lewis B. Koch, deputy supervisor.
Nevada.—Alexander McQueen, supervisor, Ely.
Toiyabe.—J. W. McGowan, supervisor, Austin.

UTAH.

Ashley.—Chas. DeMoisy, jr., supervisor, Vernal.
Cache.—Carl B. Arentson, supervisor, Logan; Walter M. Campbell.
Dixie-Sevier.—William M. Mace, supervisor, Cedar City; James O. Stewart, grazing assistant.
Fishlake-Fillmore.—C. A. Mattsson, supervisor, Richfield; James E. Gurr, deputy supervisor; Milo H. Denjng and Harley J. Helm, grazing assistants.
La Sal.—Edmund B. Spencer, supervisor, Moab.
Manti.—J. W. Humphrey, supervisor, Ephraim; S. S. Van Baskirk, deputy supervisor.
Powell-Sevier.—George H. Barney, supervisor, Widtsoe.
Uinta.—W. W. Blakeslee, supervisor, Provo; Wallace M. Riddle, deputy supervisor.
Wasatch.—Dana Parkinson, supervisor, Salt Lake City; Walter G. Mann, supervisor.

WYOMING.

Teton.—A. C. McCain, supervisor, Jackson; John A. Evans, roads, construction, and maintenance.
Wyoming-Bridger.—Charles A. Beam, supervisor, Kemmerer; Ernest E. McKee, deputy supervisor; Archie Leroy Gibson, forest assistant.

DISTRICT 5.—CALIFORNIA DISTRICT.

California and southwestern Nevada. Office, Ferry Building, San Francisco, Calif.
 PAUL G. REDINGTON, *district forester*.

Accounts.—A. W. Smith, chief of office and fiscal agent; P. A. Tucker, district fiscal agent.

Operation.—Robert L. Deering, assistant district forester; L. W. Hess, national forest inspector, executive assistant.

Personnel and inspection.—Paul P. Pitchlynn, national forest examiner.

Fire.—E. I. Kotok, forest examiner.

State cooperative fire protection under the Weeks law.—E. I. Kotok.

Law enforcement.—C. V. Brereton, national forest examiner.

Maintenance.—E. H. Schmieder.

Telephone engineering.—F. H. Hafley, telephone engineer.

Forest Management.—T. D. Woodbury, assistant district forester.

Logging engineering.—J. H. Price.

Timber sales.—J. C. Elliott, lumberman.

Timber surveys.—O. M. Evans, forest examiner.

Forest pathology (in cooperation with Bureau of Plant Industry).—E. P. Meinecke, consulting pathologist; H. G. Lachmund, Charles D. Meissner, and Willis W. Wagener, assistants; Frank Saltzman, superintendent, Experiment Station.

Grazing.—Jesse W. Nelson, assistant district forester.

Studies.—R. R. Hill, grazing examiner.

Lands.—L. A. Barrett, assistant district forester; George Miller, national forest examiner.

Mineral examination, land classification and entry surveys.—W. H. Friedhoff, mineral examiner.

Research.—S. B. Show and Duncan Dunning, forest examiners; Edward N. Munns, collaborator.

Forest Products.—C. L. Hill, forest examiner; M. R. Tillitson, national forest examiner, lumber census; Carl A. Kupfer, collaborator.

Engineering.—F. H. Fowler, district engineer; J. C. Dort, assistant district engineer.

Maps and surveys.—S. N. Stoner.

Roads.—F. H. Fowler, J. C. Dort, F. D. Bowlus.

Water power.—F. H. Fowler, J. C. Mulder, S. H. Ketcham.

Public Relations.—E. I. Kotok; Paul J. Fair, exhibits.

National Forests.

CALIFORNIA.

Angeles.—R. H. Charlton, supervisor, Los Angeles.

California.—J. D. Coffman, supervisor, Willows; William F. Derby, deputy supervisor.

Cleveland.—S. A. Boulden, supervisor, San Diego.

Eldorado.—E. F. Smith, supervisor, Placerville.

Inyo.—Thomas J. Jones, supervisor, Bishop; John S. Barnes, forest assistant.

Klamath.—T. C. West, supervisor, Yreka; Billie I. Shannon, deputy supervisor; Harry R. Saxton, forest assistant; John R. Berry, scaler.

Lassen.—C. E. Dunston, supervisor, Mineral; J. E. Elliott, deputy supervisor; A. E. Wieslander, forest examiner; Vance S. Brown, lumberman.

Modoc.—W. G. Durbin, supervisor, Alturas; Leland S. Smith, grazing examiner.

Plumas.—D. N. Rogers, supervisor, Quincy; George R. Orr, lumberman; John S. Everitt and W. E. Jotter, forest assistants.

Santa Barbara.—C. E. Jordan, supervisor, Santa Barbara; William V. Mendenhall, deputy supervisor; H. H. Hunt, range appraisal.

Sequoia.—F. P. Cunningham, supervisor, Porterville.

Shasta.—J. R. Hall, supervisor, Sisson; Belknap C. Goldsmith, forest examiner; L. N. Lorenzen, grazing examiner; Millard M. Barnum, forest assistant.

Sierra.—M. A. Benedict, supervisor, Northfork; Burnett Sanford, forest assistant.

Stanislaus.—J. V. Wulff, supervisor, Sonora; J. R. Berry, lumberman; M. R. Brundage, forest assistant.

Tahoe.—R. L. P. Bigelow, supervisor, Nevada City; George W. Lyons, forest examiner; Fred J. Dooley, lumberman.

Trinity.—B. H. Mace, supervisor, Weaverville; John T. Gray, deputy supervisor.

NEVADA.

Mono.—William M. Maule, supervisor, Minden.

DISTRICT 6—NORTH PACIFIC DISTRICT.

Washington and Oregon. Office, Post Office Building, Portland, Oreg.

GEORGE H. CECIL, *district forester.*

Public relations.—John D. Guthrie.

Accounts.—A. H. Cousins, chief of office and fiscal agent; H. J. Weil, district fiscal agent.

Operation.—A. O. Waha, assistant district forester; Shirley Buck, national forest inspector.

Fire protection.—W. B. Osborne, jr., forest examiner.

Improvement.—F. H. Brundage, K. P. Cecil.

Telephone engineering.—C. M. Allen, telephone engineer.

Law enforcement.—T. M. Talbott, national forest examiner.

Inspection of protection of Oregon & California Railroad lands.—R. H. Chapler, forest examiner.

State cooperative fire protection under the Weeks law.—R. H. Chapler, national forest examiner.

Maintenance.—H. G. Whitney.

Forest Management.—Fred Ames, assistant district forester.

Timber sales.—Thornton T. Munger, forest examiner.

Logging engineering.—Bruce E. Hoffman, logging engineer; Geo. L. Drake, forest examiner.

Check scaling.— — — —.

Timber surveys and working plans.—E. J. Hanzlik, C. J. Conover, and George A. Bright, forest examiners; F. W. Furst, forest assistant.

Insect control.—A. J. Jaenicke, forest examiner.

Forest pathology, Bureau of Plant Industry.—John S. Boyce, consulting pathologist.

Planting and forest investigations.—J. F. Kümmel and W. H. Leve, forest examiners.

Grazing.—E. N. Kavanagh, assistant district forester; J. L. Peterson, inspector of grazing.

Studies.—D. C. Ingram, grazing examiner.

Lands.—C. J. Buck, assistant district forester.

Claims.—W. M. H. Woodward, mineral examiner; F. W. Cleator, forest supervisor.

Land exchanges.—Ryle Teed, national forest examiner.

Engineering.—Philip H. Dater, district engineer; George W. Root, assistant district engineer.

Maps and surveys.—A. H. Hodgson.

Roads.—Philip H. Dater, George W. Root, Cecil A. Lord, E. R. Johnson.

Water power.—Philip H. Dater.

Products.—W. H. Gibbons and C. W. Gould, forest examiners, Portland; C. W. Zimmerman and H. C. Stinson, engineer and assistant engineer in forest products, Seattle.

National Forests.

OREGON.

Cascade.—N. F. Macduff, supervisor, Eugene; Harvey E. Vincent, deputy supervisor; E. H. Hall, forest examiner.

Crater.—H. B. Rankin, supervisor, Medford; H. M. Johnson, forest examiner.

Deschutes.—H. L. Plumb, supervisor, Bend; W. O. Harriman, deputy supervisor; F. V. Horton, grazing examiner.

Fremont.—Gilbert D. Brown, supervisor, Lakeview.

Malheur.—C. C. Reid, supervisor; John Day; P. A. Thompson, fire assistant.

Ochoco.—V. V. Harpham, supervisor, Prineville.

Oregon.—T. H. Sherrard, supervisor, Portland; H. D. Foster, deputy supervisor; A. G. Jackson, forest examiner.

Santiam.—C. C. Hall, supervisor, Albany.

Siskiyou.—E. H. MacDaniels, supervisor, Grants Pass; H. E. Haefner, forest examiner.

Siuslaw.—Ralph S. Shelley, supervisor, Eugene; A. R. Wilcox, forest examiner.

Umatilla.—John C. Kuhns, supervisor, Pendleton; R. A. Bottcher, deputy supervisor.

Umpqua.—Carl B. Neal, supervisor, Roseburg; George Bonebrake, deputy supervisor.

Wallowa.—Nelson J. Billings, supervisor, Wallowa; G. E. Stevenson, lumberman.

Whitman.—W. F. Ramsdell, I. E. Jones, J. F. Irwin, and Otto Zimmerli, supervisors, Baker; C. W. Waterbury, lumberman; Walt L. Dutton, grazing examiner.

WASHINGTON.

Chelan.—P. T. Harris, supervisor, Okanogan; G. E. Mitchell, supervisor; L. A. Isaac, forest assistant.

Columbia.—A. H. Wright, supervisor, Portland, Oreg.; H. M. White, national forest inspector. Wind River Nursery, W. F. Will, forest ranger, Carson.

Colville.—Lawrence B. Pagter, supervisor, Republic; W. J. Sproat, forest examiner.

Olympic.—R. L. Fromme and O. F. Erickson, supervisors, Olympia; F. B. Myers, forest assistant.

Rainier.—G. F. Allen, supervisor, Tacoma; E. J. Fenby and Geo. E. Griffith, deputy supervisors; A. A. Griffin, forest examiner.

Snoqualmie.—W. G. Weigle, supervisor, Seattle; Lewis A. Treen, jr., supervisor; Frank B. Kellogg, forest examiner.

Washington.—C. H. Park and R. L. Campbell, supervisors, Bellingham.

Wenatchee.—A. H. Sylvester, supervisor, Wenatchee; F. B. Lenzie, grazing examiner.

DISTRICT 7.—EASTERN DISTRICT.

Alabama, Arkansas, Florida, Georgia, Maine, New Hampshire, North Carolina, Oklahoma, Pennsylvania, Porto Rico, South Carolina, Tennessee, Virginia, West Virginia. Office, Atlantic Building, Washington, D. C.

F. W. REED, *district forester*.

Public relations.—James E. Scott.

Accounts.—M. E. Fagan, chief of office and district fiscal agent.

Operation.—H. O. Stabler, assistant district forester.

Engineering.—John W. Fox, district engineer.

Forest Management.—R. M. Evans, assistant district forester.

Timber surveys and management plans.—Arnold C. Shaw, forest examiner; J. B. Merrill and John Wasilik, jr., forest assistants.

Lands.—C. G. Smith, assistant district forester; E. D. Fletcher, national forest examiner.

Acquisition.—Rudolph Dieffenbach, forest inspector.

National Forests.

ALABAMA.

Alabama.—Burley M. Lufburrow, acting forest supervisor, Moulton.

ARKANSAS.

Arkansas.—Charles A. Plymale, supervisor, Hot Springs; W. E. White, forest examiner; J. A. Bateman, national forest examiner.

Ozark.—K. E. Kimball, supervisor, Russellville; Ben F. Vaughn, national forest examiner, minor roads and trails; William P. Dale, national forest examiner.

FLORIDA.

Florida.—W. F. Hill, supervisor, Pensacola.

NEW HAMPSHIRE.

White Mountain.—J. J. Fritz, supervisor, Gorham; H. R. Currier, deputy supervisor.

NORTH CAROLINA.

Nantahala.—R. W. Shields, supervisor, Franklin; S. M. Shanklin, deputy supervisor; C. E. Beaumont, forest examiner.

Pisgah (includes Boone National Forest, north half of Nantahala Purchase Area, and Pisgah National Forest).—Verne Rhoades, supervisor, Asheville; Meriam A. Mattoon and Ira T. Yarnall, forest examiners.

OKLAHOMA.

Wichita.—Frank Rush, supervisor, Cache.

PENNSYLVANIA.

Allegheny purchase area.—L. L. Bishop, supervisor, Warren; Frank T. Murphy, forest examiner; Clarence H. Burrage, P. M. Hodgkins, and Everett B. Stone, jr., forest assistants.

PORTO RICO.

Luquillo.—E. Murray Bruner, forest examiner, Rio Piedras.

TENNESSEE.

Cherokee.—S. H. Thompson, supervisor, Athens; Carlton L. Perkins, forest assistant.

Unaka.—H. L. Russell, supervisor, Bristol; W. N. Sloan, James Denman, and C. F. Muzzey, examiners of surveys; Lloyd O. Grapp, forest assistant.

VIRGINIA.

Natural Bridge.—J. H. Fahrenbach, supervisor, Buena Vista; H. M. Sears, forest examiner; A. R. Kinney, examiner of surveys; Simeon D. Anderson, forest assistant.

Shenandoah.—S. H. Marsh, supervisor, Harrisonburg; W. H. Stoneburner, deputy supervisor, Edinburg.

WEST VIRGINIA.

Monongahela.—H. L. Johnson, supervisor, Elkins; W. H. Sullivan, Rezin E. Pidgeon, A. A. Riemer, P. G. Jenney, and E. R. Conrad, examiners of surveys; W. E. Hedges, national forest examiners.

DISTRICT 8.—ALASKA DISTRICT.

Alaska. Office Juneau, Alaska.

CHAS. H. FLOXY, *district forester*.

Accounts.—Louis King, special fiscal agent.

National Forests.

ALASKA.

Chugach.—W. J. McDonald, supervisor, Cordova.

Tongass.—Charles T. Gardner, supervisor, Ketchikan; Robert A. Zeller, forest examiner; J. P. Williams, national forest examiner.

BUREAU OF PLANT INDUSTRY.

Physiologist and Pathologist and Chief of Bureau, WILLIAM A. TAYLOR; *Physiologist and Associate Chief of Bureau*, KARL F. KELLERMAN; *Assistant in Charge of Business Operations*, H. E. ALLANSON; *Officer in Charge of Publications*, J. E. ROCKWELL; *Officer in Charge of Records*, W. P. COX.

The Bureau of Plant Industry studies plant life in all its relations to agriculture. The scientific work of the bureau is divided into twenty-nine distinct groups, over each of which is placed a scientifically trained officer, who reports directly to the chief and associate chief of the bureau. The work of the bureau is conducted on the project plan, the investigations under each of the offices being arranged by group projects consisting of closely related lines of work. These group projects are further divided into subprojects.

Laboratory of Plant Pathology. ERWIN F. SMITH, *Pathologist in Charge*.

This is the central working laboratory for all of the pathological investigations conducted by the bureau. Studies of the diseases of a wide variety of crop plants are made in the laboratory and supplemented by field investigations and experimentation.

Scientific staff.—R. E. B. McKenney, Nellie A. Brown, and Frederick V. Rand, pathologists; Florence Hedges, Lucia McCulloch, Mary K. Bryan, and Helen E. Fox, assistant pathologists; Harry Braun, Lillian C. Cash, Charlotte Elliott, and Edna H. Fawcett, scientific assistants; Agnes J. Quirk, assistant in pathological laboratory; James F. Brewer, artist.

Plant-Disease Survey. GEORGE R. LYMAN, *Pathologist in Charge*.

This office records the geographical distribution, annual prevalence, and rate of spread of diseases of economic plants in the United States and estimates the amount of loss occasioned by them; studies epidemics and unusual outbreaks of disease in relation to various environmental factors; gathers data on the resistance and susceptibility of varieties to disease, the practical effectiveness of various control methods, and other points of value in disease-control work. All data collected are issued in the form of reports and bulletins. The office maintains close cooperative relations with pathologists and agriculturists generally.

Scientific staff.—Royal J. Haskell and G. Hamilton Martin, jr., plant pathologists; Jessie I. Wood, pathological inspector; Mary G. Van Meter, assistant in charge of plant-disease survey records.

Pathological Collections. FLORA W. PATTERSON, *Mycologist in Charge*.

This office maintains a collection of over 100,000 specimens of fungi systematically arranged according to the latest taxonomic conceptions; it constitutes a permanent depository for "type" material and is annually increased by the acquisition of old, rare, and current sets of exsiccati. The Mycological Exchange functions as an active adjunct to the collections. Problems relating to mushroom culture are especially featured. Comprehensive card indexes are maintained of new genera and species, hosts, physiological and insect diseases, and other subjects of related interests.

Scientific staff.—Vera K. Charles, assistant mycologist; Anna E. Jenkins and William W. Diehl, scientific assistants; Edith K. Cash, botanical translator; Harriet M. Daly, herbarium assistant.

Fruit-Disease Investigations. MERTON B. WAITE, *Pathologist in Charge*.

These investigations deal with the diseases of fruits and fruit trees and practical methods of controlling or preventing them. They include the deciduous orchard fruits,

citrus and subtropical fruits, grapes, small fruits, cranberries, and cultivated nuts. Perfecting methods of disease control in fruits and the discovery of new methods as well as experiments in the field form an important part of the work. Pathological studies of the decay and spoilage of fruits in transit, storage, and on the market are included. Pathological inspection of fruits during marketing is carried on in cooperation with the Bureau of Agricultural Economics.

Scientific staff.—C. L. Shear, Charles Brooks, H. R. Fulton, John W. Roberts, W. S. Ballard, Neil E. Stevens, B. O. Dodge, D. F. Fisher, J. S. Cooley, J. R. Winston, Lee M. Hutchins, and Clara H. Hasse, pathologists; Eugene A. Siegler and Henry F. Bain, assistant pathologists; Juan B. Demaree, assistant pathologist; R. B. Wilcox, Angie M. Beckwith, Ruth Colvin, John C. Dunegan, and John J. Bowman, scientific assistants; Leslie Pierce, assistant in spraying experiments; W. P. Walker, field assistant; J. M. Shull, botanical artist; Ellen A. Fenner, laboratory assistant; Marguerite Wilcox, laboratory aid; R. B. Piper, field and laboratory aid.

Citrus-Canker Eradication. Directed by the Associate Chief of Bureau.

In cooperation with the Southern States in which citrus fruits are grown, work is being conducted for the purpose of eradicating citrus canker by the thorough inspection of nurseries and citrus groves, formalin treatment of infected soil, protective spraying of groves exposed to infection, and destruction of diseased trees. The following-named State officials are in local charge of the cooperative campaigns in their respective States, and approximately 80 agents are engaged in the work: Wilmon Newell, State plant commissioner, Florida; O. F. E. Winberg, deputy State horticulturist, Alabama; W. E. Anderson, Louisiana; R. W. Harned, State entomologist, Mississippi; J. M. Del Curto, plant pathologist for Texas, State department of agriculture, Texas.

Investigations in Forest Pathology. HAVEN METCALF, *Pathologist in Charge.*

This office studies various diseases affecting forest trees and timber, as well as shade trees and shrubs. The work is conducted in close cooperation with the Forest Service.

Scientific staff.—John S. Boyce, Reginald H. Colley, George G. Hedgecock, Nathaniel O. Howard, C. J. Humphrey, William H. Long, Emile P. Meinecke, and Perley Spaulding, pathologists; J. Franklin Collins and James R. Weir, forest pathologists; Ellsworth Bethel, pathologist in forest-tree rust investigations; George F. Gravatt and Ernest E. Hubert, assistant pathologists; Glenn G. Hahn, scientific assistant; Charles D. Meissner and Frank L. Saltzman, superintendents of forest pathological field stations; Harry G. Lachmund and Willis W. Wagener, field assistants in forest pathology; Annie E. Rathbun, C. Audrey Richards, Minnie W. Taylor, and Alma M. Waterman, assistants in forest pathology.

Blister-Rust Control. SAMUEL B. DETWILER, *Pathologist in Charge.*

This office is engaged in efforts for the control of white-pine blister rust in the United States. In the East cooperation is maintained with affected States where white pine is an important crop. Eastern white-pine stands in infected regions are protected by the local destruction of wild and cultivated currant and gooseberry bushes (the alternate hosts of this disease) within 600 to 900 feet of the trees. Determining the cheapest and most effective control methods, field studies to obtain reliable data on the damage and rate of pine infection, and demonstrations and educational work with pine owners are important features of this project. Scouting for infections, tracing nursery shipments, and preventing the movement of blister-rust host plants in violation of the Federal quarantine are carried on where the disease has not yet appeared. This work is especially directed toward preventing the introduction of the disease into the extensive white-pine and sugar-pine forests of the West.

The following State officials are in charge of cooperative local control work: S. T. Dana, land agent and forest commissioner, Maine; E. S. Brigham, commissioner of agriculture, Vermont; A. W. Gilbert, commissioner of agriculture, Massachusetts; J. H. Foster, State forester, New Hampshire; John J. Dunn, secretary, board of agriculture, Rhode Island; E. H. Jenkins, director, agricultural experiment station, Connecticut; A. McDonald, commissioner, conservation commission, New York; A. G. Ruggles, State entomologist, Minnesota; C. P. Norgord, commissioner of agriculture, Wisconsin.

Scientific staff.—James F. Martin, Gilbert B. Posey, Edmund C. Filler, and Roy G. Pierce, forest pathologists; Stephen N. Wyckoff, Charles R. Stillinger, and Joseph L. Richards, assistant pathologists; Charles E. Randall, William J. Endersbee, Walter O. Frost, Leslie N. Goodding, Henry N. Putnam, William E. Pickler, James E. Riley, jr., George A. Root, and Charles H. Johnson, assistants in white-pine blister-rust control; Lewis W. Hodgkins, field assistant; Leonard E. Newman, Herman J. Ninman, Arthur F. Amadon, Kenneth J. Braden, Henry Hicock, Lloyd A. Hall, Edward J. Streater, and Carl C. Perry, agents.

Cotton, Truck, and Forage Crop Disease Investigations. W. A. ORTON,
Pathologist in Charge.

These investigations cover diseases of garden vegetables, including field demonstrations of methods of control and prevention; diseases of cotton, of cowpeas and other forage crops, and of related plants.

Scientific staff.—Sears P. Doolittle, Howard A. Edson, William W. Gilbert, George H. Godfrey, Leonard L. Harter, Ivan C. Jagger, Fred R. Jones, John I. Lauritzen, Howard G. MacMillan, Fred C. Meier, Eugene S. Schultz, Michael Shapovalov, John C. Walker, and James L. Weimer, pathologists; Frederick J. Pritchard, physiologist; Wilber Brotherton, jr., Charles Drechsler, Gustav A. Meckstroth, and Glen B. Ramsey, assistant pathologists; John Monteith, jr., and William S. Porte, scientific assistants; Lester E. Barrett, Virginia S. Cotter, Clio L. Kem, and Robert R. Odell, laboratory aids.

Crop Physiology and Breeding Investigations. WALTER T. SWINGLE, *Physiologist in Charge.*

This office investigates the physiology of crop plants with a view to determining the limiting factors which control their successful culture and conducts the breeding and testing of new varieties. Several field stations are maintained. Field investigations are conducted on some of the Indian reservations of the Southwest for testing crop plants which seem likely to be suited for culture by the Indians and by white settlers in adjoining regions. Dates, Smyrna figs, hardy citrus fruits, pistaches, and certain drought-resistant tree crops are being tested.

Scientific staff.—T. Ralph Robinson, physiologist; S. C. Mason, arboriculturist; G. P. Rixford, physiologist; Frank A. Thackery, specialist in southwestern agriculture; E. M. Savage, assistant plant breeder; Bruce Drummond, assistant in arboriculture; Katherine H. Wead, scientific assistant; Esten W. Campbell and A. R. Leding, assistants in date investigations; Eugene May, jr., plant propagator; Robert J. Bullen, assistant in citrus quarantine; Elizabeth H. Groff, Chinese interpreter and indexer and botanical assistant; Michael J. Hagerty, indexer and translator of Chinese.

Soil Bacteriology Investigations. Directed by Associate Chief of Bureau.

This work is a study of the relation of bacteria to soil fertility, plant growth, cellulose destruction, and the fixation of nitrogen. Pure cultures of nodule-forming bacteria for leguminous crops are distributed.

Scientific staff.—Felix Löhnis, soil biologist; F. M. Scales, assistant soil mycologist; Alfred P. Dachnowski, physiologist; F. L. Goll and Lewis T. Leonard, assistant physiologists; Nathan R. Smith, assistant bacteriologist; Franklin W. Marsh, scientific assistant; Arthur P. Harrison, statistical assistant; Samuel H. Newcomer, physical laboratory helper.

Soil-Fertility Investigations. OSWALD SCHREINER, *Biochemist in Charge.*

This office makes a study of the action of fertilizers on field crops; also the causes of and remedy for infertility in certain soils, whether natural or arising from improper methods of cultivation and cropping. It separates, identifies, and studies certain organic substances found in unproductive soils and corrects their evil effects by mechanical handling, by the use of fertilizers, and by other methods available to the farmer.

Scientific staff.—Bailey E. Brown, Joshua J. Skinner, Edmund C. Shorey, Lewis A. Hurst, and Frank M. Schertz, biochemists; Fred R. Reid, Ralph B. Deemer, Edward F. Snyder, Wilbur R. Leighty, and Paul R. Dawson, assistant biochemists; Paul D. Boone, junior chemist; Albert M. Jackson, laboratory aid.

Crop Acclimatization and Adaptation Investigations. O. F. COOK, *Bionomist in Charge.*

These investigations are directed chiefly to the acclimatization in the South and Southwest of varieties of cotton, corn, and other crop plants of tropical origin. The breeding of superior varieties of cotton and the improvement of cultural methods for boll-weevil conditions are special features.

Scientific staff.—C. B. Doyle, botanist; W. W. Ballard, G. W. R. Davidson, F. W. Herbert, H. F. Loomis, H. G. McKeever, C. G. Marshall, R. D. Martin, and D. M. Simpson, assistants in crop acclimatization; W. B. Camp, agronomist; H. A. Gunning, scientific assistant; Chalmers J. King, assistant in plant nutrition; H. C. McNamara, farm superintendent; L. G. Polhamus, special field assistant in crop acclimatization; L. B. Rose, administrative assistant; Robert L. Taylor, physical laboratory helper; Horace H. Willis, cotton specialist with textile training.

Fiber-Plant Investigations. L. H. DEWEY, *Botanist in Charge.*

These investigations deal with the study of fiber plants likely to prove of value in the United States and the encouragement of fiber-plant industries.

Scientific staff.—H. T. Edwards, specialist in fiber-plant production; Robert L. Davis, assistant plant breeder; Rafael Vidal, A. H. Wright, and Henry D. Barker, agents; Lucille Goodloe, laboratory aid.

Drug, Poisonous, and Oil Plant Investigations. W. W. STOCKBERGER, *Physiologist in Charge.*

These investigations, which include both field and technical laboratory studies, deal with the commercial culture and production of drug, oil-seed, volatile-oil, and related crops; possibilities in utilization of pits, culls, and similar waste materials of the canning and fruit-packing industries as sources of oils and other valuable products; improvement of active-principle content of drug plants; properties and geographic distribution of poisonous plants.

Scientific staff.—G. Archie Russell, expert in drug-plant investigation; Otis F. Black, Frank Rabak, and Arthur F. Sievers, chemical biologists; Willard W. Eggleston, assistant botanist; James W. Kelly, chemical laboratorian; Norris S. Lowman, laboratory aid.

Plant Physiological and Fermentation Investigations. HOMER L. SHANTZ, *Physiologist in Charge.*

The object of this work in its widest sense is the investigation of the physiological processes in plants. More specifically, it is the object of this office to study (1) the carbohydrate metabolism of vegetables during growth and in storage, with a view of determining the transformations and gain or loss of food materials under various conditions; (2) the nitrogen metabolism and protein synthesis of plants, for the purpose of obtaining a background upon which a rational investigation of the many diseases and disturbances of the nitrogen metabolism of crop plants may be based; (3) the pigment and surface coverings of plants as factors affecting their color, marketability, and keeping qualities; (4) the natural vegetations as indicators of environmental conditions of both soil and climate, with reference to the adaptability of specific regions for crop production; (5) the effect of low temperature on plants, with a view of determining the cause of injury or resistance to frost; (6) the cell sap of plants and the relation of changes therein to certain plant diseases and to physiological behavior; and (7) the absorption of salts by plants, to determine the physiological basis for the better nutrition of field crops.

Scientific staff.—Heinrich Hasselbring, plant physiologist; Samuel L. Jodidi, organic chemist; Charles E. Sando, junior chemist; Klare S. Markley, laboratory assistant; Paul H. Williams, laboratory aid; John A. Lucas, laboratory helper.

Cereal Investigations. CARLETON R. BALL, *Cerealist in Charge.*

This office deals with the culture, adaptation, improvement, genetics, and uses of cereal crops, including corn; the prevention of diseases affecting cereals; the cultivation of flax for seed purposes, including a study of flax diseases; and the production and improvement of broom corn.

Scientific staff.—Clyde W. Warburton, Clyde E. Leighty, J. Allen Clark, Harry V. Harlan, Charles P. Hartley, Charles E. Chambliss, Arthur C. Dillman, James R. Holbert, Curtis H. Kyle, Ernest B. Brown, Fred D. Richey, T. Ray Stanton, John H. Martin, and Merritt N. Pope, agronomists; William J. Sando, Victor H. Florell, Jenkin W. Jones, Ralph W. Smith, Franklin A. Coffman, John B. Sieglinger, John G. Willier, J. Mitchell Jenkins, John W. Taylor, Harry S. Garrison, John C. Brinsmade, jr., Benjamin H. Duddleston, Arthur F. Swanson, and Ludwig S. Mayer, assistant agronomists; Harry B. Humphrey, Wendell H. Tisdale, Aaron G. Johnson, Forrest E. Kempton, and George N. Hoffer, pathologists; Moses N. Levine, Albert F. Thiel, Victor F. Tapke, John W. Baringer, George C. Mayoue, Harold H. McKinney, Jesse H. Muncie, Charles S. Reddy, Noel F. Thompson, Olaf S. Aamodt, Ruth F. Allen, Sherlock M. Dietz, Glenn M. Smith, John F. Trost, W. E. Brentzel, Helen Johann, Charles O. Johnston, Benjamin Koehler, Florence S. Willey, Marion A. Griffiths, Gordon C. Curran, Robert W. Leukel, and Grace O. Wineland, assistant pathologists; Annie May Hurd, assistant physiologist; Wilfred W. Robbins, botanist; David E. Stephens, superintendent of cereal field station; Robert W. Webb, Lynn D. Hutton, Leonard W. Melander, Merle T. Jenkins, Ralph W. May, and Hugo F. Stoneberg, scientific assistants; Gustav A. Wiebe, junior plant breeder; Fred N. Briggs, Leroy E. Compton, and Horace M. Woolman, field assistants in pathology; Joseph M. Hammerly, assistant in corn investigations; Walter F. Reddy, William T. Craig, Lyman C. Burnett, Ross R. Childs, James G. Dickson, Edwin B. Mains, Elvin C. Stakman, J. Milford Raeder, Leo E. Melchers, Gilbert D. George, Dixon L. Bailey,

Charles W. Hungerford, Charles R. Hursh, Herbert S. Jackson, John H. Parker, Edward F. Gaines, Frederick J. Stevenson, Howard A. Taft, Lewis J. Stadler, Wallace Butler, Jonas J. Christensen, and Edmund B. Lambert, agents; Chester Barlow and John R. Hooker, laboratory aids.

Tobacco and Plant Nutrition Investigations. W. W. GARNER, *Physiologist in charge.*

The tobacco work has to do with the improvement of tobacco by hybridization and selection, the improvement of methods of fertilizing, growing, and handling the crop, the combating of diseases, and the general study of the tobacco industry. Experiments in the growing of tobacco in rotation with farm crops are a feature of the work.

The plant-nutrition studies relate to the growth, development, and composition of crop plants as affected by nutrition, more particularly the effect of the length of day on plants, the effects of crops on other crops following in the rotation, the functions of the plant-food elements in nutrition, and the relative plant-food requirements of crops commonly grown in rotation.

Scientific staff.—E. H. Mathewson and G. W. Harris, crop technologists; Otto Olson, D. E. Brown, W. M. Lunn, E. G. Moss, James P. Young, J. E. McMurtrey, jr., and J. C. Hart, assistants in tobacco investigations; H. A. Allard, physiologist; Charles W. Bacon, assistant physiologist; C. M. Slagg, assistant pathologist; Robert A. Steinberg, junior biological chemist; James Johnson, Theodore C. McIlvaine, and Willard W. Green, agents; Albert B. Creed, field and laboratory aid.

Agricultural Technology. N. A. COBB, *Technologist in Charge.*

These investigations deal with the improvement of technological methods in crop production and with the technology of the products and studies of free-living and plant-infesting nematodes.

Scientific staff.—E. G. Arzberger, pathologist; G. Steiner, technologist and nematologist; J. R. Christie, nematologist; Charlotte E. Sprenkel, Helen M. Heinly, Mary Bradley, and Edna Buhner, assistants in nematology; Frances E. Gravatt, junior nematologist; Eunice M. Raps, Grace M. Wise, and Percy Danforth, laboratory aids; M. L. Harrison, assistant in technology; C. B. Bateman, mechanical assistant in technology.

Seed-Testing Laboratories. EDGAR BROWN, *Botanist in Charge.*

These laboratories are charged with the enforcement of the seed-importation act; they also examine samples of commercial seeds for the presence of adulterants and conduct a general educational service in the interest of pure seed for the farmer. The work is performed both in Washington, D. C., and at cooperative laboratories in the field.

Scientific staff.—F. H. Hillman and W. L. Goss, assistant botanists; Eben H. Toole, assistant pathologist; Emma F. Sirrine, Bertha C. Hite, Helen H. Henry, Emma S. Doyle, Agnes J. Ryder, Alma L. Eggleston, Jane C. Kinsella, Kathleen Bland, Pearl L. Drummond, Regina B. Schulte, and Grace M. Cole, scientific assistants.

Forage-Crop Investigations. CHARLES V. PIPER, *Agrostologist in Charge.*

The forage-crop investigations include methods of production, development, and dissemination of new valuable varieties; extension of forage crops into sections where they are adapted but are grown only to a limited extent; and cooperation in the introduction and extension of new crops.

Scientific staff.—R. A. Oakley, Adrian J. Pieters, Harry N. Vinall, Lyman Carrier, Roland McKee, Harvey L. Westover, and William J. Morse, agronomists; Morgan W. Evans, Alexander B. Cron, and Leonard W. Kephart, assistant agronomists; Samuel Garver and Robert E. Getty, assistant agrostologists; Percy L. Ricker, assistant botanist; Hiram R. Reed, Harry A. Schoth, and Norval F. Woodward, scientific assistants; Oscar E. Barbee, Charles E. Hill, William E. Stokes, and Donaldson Ryder, agents; Anselm T. Stone and Charles W. Lee, field-station aids; Ellen I. S. Wallis, artist; Orland E. White, Arthur B. Conner, Alfred T. Wiancko, and P. K. Blinn, collaborators.

Alkali and Drought Resistant Plant Investigations. T. H. KEARNEY, *Physiologist in Charge.*

This office investigates the alkali resistance of crop plants; develops, by breeding and selection, strains of field crops which will be more resistant to drought than the varieties now obtainable; and studies the physiology of drought resistance. Plant-breeding work with cotton of the Egyptian type is conducted in Arizona and California with the object of developing varieties adapted to the arid climate of the region and to soils containing more or less alkali. The work is conducted in close cooperation with other

branches of the bureau concerned with the upbuilding of agriculture in the West and Southwest.

Scientific staff.—George J. Harrison, assistant plant breeder; R. H. Manthey and Max Willett, assistants in plant breeding.

Economic and Systematic Botany. FREDERICK V. COVILLE, *Botanist in Charge.*

This office maintains economic collections of cultivated plants and makes systematic studies of grasses and other economic plants, compiles for publication information on native plants, tests wild and little-known plants, devises methods for the control or eradication of weeds, and experiments with a view to the improvement of the grazing areas on the public lands.

Scientific staff.—A. S. Hitchcock, systematic agrostologist; W. E. Safford, economic botanist; Sidney F. Blake and Ivar Tidestrom, assistant botanists; Agnes Chase, assistant agrostologist; Oliver M. Freeman and Katherine D. Kimball, herbarium assistants.

Dry-Land Agriculture Investigations. E. C. CHILCOTT, *Agriculturist in Charge.*

This office conducts field experiments and investigations in the Great Plains to determine the possibilities and limitations of agriculture for the semiarid region, the cultural methods by which farmers can realize the most profitable production, and the fundamental laws and principles of dry farming.

Scientific staff.—John S. Cole, John M. Stephens, and Ellery F. Chilcott, agriculturists; George W. Morgan, Floyd L. Kelso, Walter M. Osborn, Ray S. Towle, Joseph F. Brandon, Harry J. Clemmer, Albert Osenbrug, Leroy Moomaw, Benjamin F. Barnes, August L. Nelson, Donald R. Burnham, and Fred E. Keating, farm superintendents; Alanson L. Hallstead, Oscar R. Mathews, Johnson T. Sarvis, Arthur E. Seamans, John C. Thysell, Lowell F. Locke, W. P. Baird, Embert H. Coles, and Leslie L. Zook, assistants in dry-land agriculture; Robert Wilson and Francis E. Cobb, assistants in dry-land arboriculture.

Western Irrigation Agriculture. C. S. SCOFIELD, *Agriculturist in Charge.*

The work is concerned with the development of profitable agriculture on irrigated lands in the western United States and also with the testing of various crops suited for growth under irrigation. The work is conducted in cooperation with the Reclamation Service of the Department of the Interior and with a number of the investigational officers of the bureau.

Scientific staff.—F. B. Headley, agriculturist; H. K. Dean, agriculturist; Beyer Aune, James A. Holden, Edward G. Noble, Dan Hansen, and George T. Ratliffe, farm superintendents; C. E. Peterson, assistant arboriculturist; Elmer W. Knight, assistant farm superintendent; Dalton R. Hooton, scientific assistant.

Sugar-Plant Investigations. C. O. TOWNSEND, *Pathologist in Charge.*

This office investigates all factors bearing upon the production and improvement of sugar plants, including a study of cultural methods, diseases, and the importation, selection, and breeding of varieties, as well as the proper handling and utilization of the raw material and of the by-products. It also studies the relation of the sugar crops, beet, cane, and sweet sorghum, to all other activities on the farm, including crop rotation, stock raising, labor, markets, etc., so far as these factors have any bearing upon the production and utilization of sugar plants and their by-products and upon the yield and quality of the finished products, sugar and sirup.

Scientific staff.—William H. Burns, Samuel B. Nuckols, and Joe G. Lill, agriculturists; Edward C. Rittue, assistant; Caroline T. Rumbold, Elmer W. Brandes, and Eubanks Carner, pathologists; Peter J. Klaphaak, assistant pathologist; William J. Uckele, assistant agriculturist; W. W. Tracy, jr., and Peter A. Yoder, technologists; H. B. Cowgill, agronomist and plant breeder; Ernest Reed and Dean A. Pack, plant breeders; Gerald Thorne, assistant nematologist; S. F. Sherwood, chemist; George R. Quesenberry, Levi A. Giddings, and C. P. Sheffield, agents.

Horticultural and Pomological Investigations. L. C. CORBETT, *Horticulturist in Charge.*

These investigations have to do with the improvement of methods of producing, shipping, and storing perishable fruits, truck, and related crops; landscape and vegetable gardening; floriculture and related subjects. The work is divided into fruit production, fruit utilization, viticulture, nut culture, fruit breeding, fruit history, fruit nomenclature and identification, truck-crop production, vegetable breeding, vegetable utilization, landscape gardening, floriculture and miscellaneous horticultural investigations, potato investigations, fruit and vegetable transportation, and storage investigations.

Scientific staff.—C. P. Close, George M. Darrow, H. P. Gould, C. F. Kinman, E. R. Lake, C. W. Mann, Raymond R. Pailthorp, L. B. Scott, pomologists; George C. Husmann, viticulturist; R. E. Caryl, C. S. Pomeroy, Elmer Snyder, and Guy E. Yerkes, assistant pomologists; C. A. Reed and M. N. Wood, nut culturists; J. H. Beattie, W. R. Beattie, C. F. Clark, Charles T. Dearing, W. C. Edmundson, David Griffiths, R. G. Hill, F. L. Mulford, D. N. Shoemaker, and William Stuart, horticulturists; Chester J. Hunn, P. M. Lombard, and B. Y. Morrison, assistant horticulturists; Joseph S. Caldwell, Lon A. Hawkins, A. D. Shamel, and R. C. Wright, physiologists; C. W. Culpepper and C. A. Magoon, assistant physiologists; W. F. Wight, botanist; George F. Taylor, associate physicist; W. R. Barger, H. C. Diehl, Magdalene R. Newman, and Julia R. Pearce, scientific assistants; F. L. Husmann, viticultural superintendent; Mary D. Arnold, Amanda A. Newton, and R. C. Steadman, artists; J. F. Fernald and R. L. Newton, mechanical assistants in refrigeration; E. H. Milstead, administrative assistant.

Foreign Seed and Plant Introduction. DAVID FAIRCHILD, *Agricultural Explorer in Charge.*

This office secures promising new seeds and plants, both by agricultural exploration and by correspondence, and these are tested at the plant introduction field stations or through cooperation with other offices, experiment stations, experimenters, and private individuals. Investigations in plant propagation and in the development of certain plant industries are features of the work.

Scientific staff.—P. H. Dorsett, plant introducer in charge of plant introduction gardens; Beverly T. Galloway, plant pathologist in charge of special research projects; Peter Bisset, plant introducer in charge of plant experimenters' service; Wilson Popenoe and Joseph F. Rock, agricultural explorers; H. C. Skeels, botanist; G. P. Van Eseltine, assistant botanist; Robert A. Young, plant introducer; C. C. Thomas and L. G. Hoover, assistant plant introducers; E. L. Crandall, assistant in plant introduction; P. G. Russell and Patty Newbold, scientific assistants; Edward Goucher, Henry Klopfer, and Charles H. Steffani, plant propagators; J. E. Morrow, superintendent in charge of plant introduction garden, Chico, Calif.; Edward Simmonds, garden and field station superintendent in charge of plant introduction garden, Miami, Fla.; David A. Bisset, superintendent in charge of plant introduction and detention garden, Glenn Dale, Md.; Henry E. Juenemann, superintendent in charge of plant introduction garden, Bellingham, Wash.; W. A. Patten, superintendent in charge of plant introduction garden, Brooksville, Fla.; Edwin J. Rankin, in charge of garden, Savannah, Ga.; Frank J. Hopkins and Jean Le Roy, laboratory aids; Howard A. Houser, Bergie L. Peters, David M. Wallen, and Roy S. Atwater, field station aids.

Biophysical Investigations. G. N. COLLINS, *Botanist in Charge.*

This office studies physical problems connected with the work of the Bureau of Plant Industry. Attention is chiefly directed at present to biophysical problems in dry-land agriculture, including the water requirement and nutrition of crop plants and the influence of the physical environment on the growth of crops and the development of special varietal characters.

Scientific staff.—J. H. Kempton, assistant plant breeder; J. O. Belz, biophysicist; John W. McLane, assistant biophysicist; J. F. Breazeale, associate biochemist; Frank M. Eaton, assistant in plant nutrition; Harold M. Young, physical laboratory helper.

Seed Distribution. R. A. OAKLEY, *Agronomist in Charge.*

This work consists of purchasing, packeting, assembling, and mailing vegetable, flower, and grass seed and purchasing and mailing plants under the Congressional Seed Distribution; also purchasing, testing, propagating, and distributing seed of new and improved field crops.

Staff.—J. E. W. Tracy, superintendent of seed distribution; Bernard Connor, superintendent of field-seed distribution; Oliver E. Jones, administrative assistant.

Demonstrations on Reclamation Projects. ABRAM C. COOLEY, *Agriculturist in Charge.*

This office conducts demonstration work with individual farmers and farmers' organizations on the Government reclamation projects for the purpose of assisting in the establishment of specific agricultural industries suited to the conditions on these projects.

Scientific staff.—L. E. Cline, Harry A. Ireland, and George A. Wright, agriculturists for reclamation projects; David H. Propps, agent.

Experimental Gardens and Grounds. E. M. BYRNES, *Assistant in Charge.*

This office is charged with the care and ornamentation of the department grounds, the maintenance of greenhouses and plant collections, and the propagation of plants for experimental and other purposes. Experimental work with florists' crops is also being conducted in the greenhouses.

Arlington Experimental Farm. Directed by L. C. CORBETT, *Horticulturist.*

The Arlington farm is the field laboratory at Washington for the Bureau of Plant Industry, as well as for other bureaus of the department. Experiments covering a wide range are conducted on the field areas and in the greenhouses, laboratories, and storage buildings.

Staff.—E. C. Butterfield, horticulturist in general charge; J. H. Criswell, assistant superintendent.

BUREAU OF CHEMISTRY.

Acting Chief, W. G. CAMPELL; *Assistant Chief,* W. W. SKINNER.

The Bureau of Chemistry is concerned primarily with questions of agricultural chemistry of public interest, the enforcement of the food and drugs act and the tea act, analytical work, and investigations under the food and drugs act, and other chemical investigations referred to it by the various branches of the Government service.

General Administration. R. W. BALCOM and P. B. DENBAR, *Technical Administrative Assistants*; F. B. LINTON and S. A. POSTLE, *Assistants to the Chief*; M. BOYLE, C. W. CRAWFORD, ARTHUR STENGEL; LOUISE DUVAL, *Librarian*; KATHARINE A. SMITH, *Editor.*

Office of Imports. A. E. TAYLOR, *Chemist in Charge.*

This office has general supervision over the activities of the bureau under the food and drugs act relating to imported foods and drugs, with a view to coordinating the work done at the ports of entry.

Office of Cooperation. W. S. FRISBIE, *Chemist in Charge.*

The functions of this office are to secure the cooperation of all officials, Federal, State, and municipal, charged with the enforcement of food and drug laws, to adopt policies and develop plans for such cooperation, and to supply information necessary to State and city officials in connection with their official duties. The office also serves as a clearing house for the collection and dissemination of information for all persons engaged in regulatory food and drug work.

Joint Committee on Definitions and Standards. A. S. MITCHELL, *Secretary.*

This committee consists of three representatives from the Association of Official Agricultural Chemists, three from the Association of American Dairy, Food and Drug Officials, and three from the Department of Agriculture. Data on the composition of foods and drugs are secured and compiled in the department.

Office of Development Work. D. J. PRICE, *Engineer in Charge.*

This office arranges for the development on a commercial or industrial basis of chemical processes and discoveries made in the bureau, and assists in placing the scientists responsible for such processes in touch with appropriate commercial and industrial organizations. It investigates the causes of plant-dust explosions and fires in threshers, mills, elevators, cotton gins, and storage warehouses, to determine the most effective means of preventing such explosions and fires. The work is done in cooperation with the Bureau of Public Roads, the Bureau of Markets, the Bureau of Plant Industry, Bureau of Mines in the Department of the Interior, and the Pennsylvania State College. It has charge of the experimental work being conducted by the bureau on the production of gas from waste agricultural products, for heat, light, and power on the farm.

Scientific staff.—Development projects: H. E. Roethe, in charge; R. M. Baker, Elmer Field, and H. W. Frevert. Plant dust explosion and fire investigations: H. R. Brown, in charge; P. W. Edwards, L. S. Longenecker, J. O. Reed, H. C. Reese, and L. J. Trostel.

Drug Administration. M. W. GLOVER, *surgeon, Public Health Service, in charge.*

This office has to do with the preparation of cases dealing with violation of the provisions of the food and drugs act relating to drugs.

Assistants.—J. S. Jamison,¹ F. P. Morgan, and A. G. Murray.

Analytical Reagents Investigation Laboratory. G. C. SPENCER, *Acting Chemist in Charge.*

This laboratory examines and standardizes chemicals, reagents, and apparatus.

Scientific Staff.—J. K. Morton, assistant.

¹Acting assistant surgeon, Public Health Service.

Animal Physiological Chemical Laboratory. F. C. WEBER, *Chemist in Charge.*

The work in this laboratory includes a complete study of the application of chemical methods to the determination of deterioration of animal foods, and experimental work to improve the methods of analysis ordinarily employed in physiological chemistry.

Carbohydrate Laboratory. H. S. PAINE, *Chemist in Charge.*

This laboratory analyzes sugars, sirups, molasses, honeys, jellies, jams, preserves, infant foods, confectionery, and similar substances in connection with the enforcement of the food and drugs act. Analyses are also made of samples of sugars, starches, sirups, and molasses bought by the General Supply Committee. The laboratory investigates the manufacturing processes used in the production of raw and refined sugar and molasses, maple sugar, sirups from cane, maple, and sorghum, and confectionery. Improved methods of chemical analysis are studied, and also the characteristic constants by which pure carbohydrates are distinguished.

Scientific staff.—R. T. Balch, Victor Birkner, D. H. Brauns, J. Hamilton, O. S. Keener, F. W. Reynolds, and C. F. Walton, jr., assistants.

Color Investigation Laboratory. J. A. AMBLER, *Chemist in Charge.*

The various projects on the study of color substances which have been in progress in this bureau for some time are concentrated in this laboratory, and the investigations have been extended with a view to the prosecution of research of value to the American industries.

Scientific staff.—W. F. Clarke, O. L. Evenson, M. J. Goss, H. L. J. Haller, D. F. J. Lynch, G. H. Mains, O. A. Nelson, S. Palkin, Max Phillips, C. E. Senseman, and H. Wales, assistants.

Drug Division. L. F. KEBLER, *Chief.*

This division studies the properties, composition, and quality of drugs and medicinal preparations, and analyzes samples of such products purchased on the market. It also studies methods which may lead to more satisfactory analytical processes, especially for testing potent plant drugs and products derived from them. It cooperates with the Post Office Department in ridding the mails of fraudulent medical and other allied schemes.

Scientific staff.—W. O. Emery, W. F. Kunke, E. K. Nelson, and C. D. Wright, assistants.

Food Control Laboratory. F. C. BLANCK, *Chemist in Charge.*

This laboratory analyzes samples of food products not specifically assigned to other laboratories in connection with the enforcement of the food and drugs act. Analyses are also made of food samples submitted by the General Supply Committee, Quartermaster of the Marine Corps, Quartermaster General of the Army, etc. This laboratory handles general correspondence relating to food products especially considered by it, and also acts in an advisory capacity to the administrative offices of the bureau. Special studies are also made on the manufacture and production of food products, the analysis of dairy products, the analysis of flour and alimentary pastes, and methods of analysis of the various food products considered by this laboratory.

Scientific staff.—L. H. Bailey, Ruth Buchanan, C. E. Goodrich, J. T. Keister, H. A. Lepper, Lottie M. Manross, Marie L. Offutt, J. I. Palmore, T. F. Pappe, O. S. Rask, J. B. Reed, R. L. Rutledge, and Dorothy B. Scott, assistants.

Fruit and Vegetable Utilization Laboratory. H. C. GORE, *Chemist in Charge.*

This laboratory is investigating the utilization of surplus and cull fruits and vegetables. At present the utilization of potatoes and sweet potatoes is receiving the most attention.

Leather and Paper Laboratory. F. P. VEITCH, *Chemist in Charge.*

This laboratory conducts investigations of tanning and tanning materials, their effects upon the strength and properties of leather, and processes involved in their production; problems relating to the production, properties, and preservation of leather; the qualities of papers and their fitness for use in the Department of Agriculture and other departments of the Government which may request such investigations; the nature and uses of turpentine and resins, together with improved processes of production; the grading, weighing, and handling of naval stores, and preparation of definite type samples therefor; and the waterproofing, mildewproofing, and fireproofing of fabrics. Turpentine and rosin are examined under the food and drugs act. Leathers, turpentine, resins, and textiles are examined for the departments of the Government requesting such work, and specifications are prepared for the purchase of these articles.

Scientific staff.—L. C. Benedict, I. D. Clarke, R. W. Frey, V. E. Grotlisch, H. P. Holman, T. D. Jarrell, L. R. Leinbach, W. C. Smith, and W. F. Sterling, assistants.

Microbiological Laboratory. CHARLES THOM, *Mycologist in Charge.*

This laboratory consists of a research section and a regulatory section and works upon the relation of molds and bacteria to food products. Its research projects cover studies of yeasts, oysters, sauerkraut, canned goods, deterioration of cereal products and of forage, classification and activities of bacteria and molds, and the development and standardization of methods applicable to biological inspection work. Its regulatory staff conducts the bacteriological inspection of milk, oysters, gelatin, table waters, tomato products, canned foods, and miscellaneous inspection samples in which spoilage is suspected.

Scientific staff.—G. G. De Bord, M. B. Church, A. C. Hunter, S. A. Koser, E. Lefevre, and B. A. Linden, assistants.

Microchemical Laboratory. B. J. HOWARD, *Microscopist in Charge.*

This laboratory makes microscopical and microchemical studies of foods, drugs, cattle feed, paper and textile materials, miscellaneous agricultural products, etc. It also makes microscopical examinations of insecticides, and studies methods for their microscopical identification and estimation. Special attention is given to the histological study of fruits, spices, cereals, starches, and other agricultural products for the purpose of perfecting methods for detecting the adulteration of these products.

Scientific staff.—G. L. Keenan, V. A. Pease, E. A. Read, and C. H. Stephenson, assistants.

Miscellaneous Division. J. K. HAYWOOD, *Chief.*

This division comprises an insecticide and fungicide laboratory, a cattle food and grain investigation laboratory, and a trade wastes laboratory. It studies insecticides and fungicides, cattle foods, forage crops, grains, trade wastes, and certain hygienic problems, making analyses under the food and drugs act and the insecticide act, and performing such miscellaneous chemical work as may be referred to it. This division makes cooperative investigations of insecticides and fungicides for the Bureau of Entomology and Bureau of Plant Industry. Much time is given to the investigation of new methods of analysis of insecticidal and fungicidal materials and feedstuffs and to chemical investigations of these materials.

Scientific staff.—Cattle food and grain investigation laboratory: G. L. Bidwell, chemist in charge; L. E. Bopst, J. D. Bowling, jr., M. R. Coe, and G. P. Walton, assistants. Insecticide and fungicide laboratory: C. C. McDonnell, chief; J. W. Barnes, J. C. Bubb, F. C. Cook, W. A. Gersdorff, J. J. T. Graham, E. L. Griffin, F. L. Hart, R. Jenkins, W. D. Lynch, L. N. Markovitz, G. E. Miller, W. J. Morgan, A. C. Nothstine, R. F. Russ, A. Shaver, L. P. Shippen, W. H. Tonkin, and H. D. Young, assistants. Trade wastes laboratory: Under J. K. Haywood, chief.

Nitrogen Laboratory. I. K. PHELPS, *Chemist in Charge.*

Nitrogen determinations for all laboratories of this bureau, as well as for many of the other bureaus of the department, are made in the nitrogen laboratory. Work in cooperation with the Association of Official Agricultural Chemists, looking to the improvement of the methods for making these determinations, is also done.

Scientific Staff.—L. J. Jenkins, assistant.

Oil, Fat, and Wax Laboratory. G. S. JAMIESON, *Chemist in Charge.*

This laboratory analyzes oils, fats, cooking compounds, chocolates, nut butters, and similar substances in connection with the enforcement of the food and drugs act. It studies the chemical composition of American food oils, fats, and hydrogenated compounds, and carries on investigations in the production of such products.

Scientific staff.—W. F. Baughman, assistant.

Pharmacognosy Laboratory. A. VIEHOEYER, *Pharmacognosist in Charge.*

This laboratory supervises the inspection of crude drugs under the food and drugs act. It investigates the chemical, histological, and morphological characteristics of drugs and plants. It works on the improving of methods of drug analysis and on the establishing of standards for drugs and other plant products.

Scientific staff.—R. C. Capen and J. F. Clevenger, assistants.

Pharmacological Laboratory. E. W. SCHWARTZE, *Pharmacologist in Charge.*

This laboratory conducts researches on the physiological action of poisonous substances occurring in food products and of drugs used in medicine, and makes physiological tests of drugs to ascertain the strength and purity of medical preparations found on the open market.

Scientific staff.—J. C. Munch, assistant.

Phytochemical Laboratory. F. B. POWER, *Chemist in Charge.*

The purpose of this laboratory is to subject plants and vegetable drugs to a complete chemical investigation, with special consideration of such constituents as may represent their physiological activity. It thus endeavors to ascertain the possible utilization of various plants or their active principles as therapeutic agents, and also to facilitate the detection of drugs in such medicinal preparations or other products as are subject to surveillance under the food and drugs act.

Scientific staff.—V. K. Chesnut, assistant.

Protein Investigations Laboratory. D. B. JONES, *Acting Chemist in Charge.*

This laboratory investigates and analyzes the proteins which occur in seeds and other vegetable substances used as foods. At present the proteins of the peanut, the velvet bean, coconut, buckwheat, and kafir are under investigation. The purpose of these researches is to ascertain the nutritive value of the various proteins. Feeding experiments are conducted in cooperation with the Bureau of Animal Industry. Experimental work is also done to improve the methods used in the preparation and analysis of proteins.

Scientific staff.—A. J. Flincks, C. E. F. Gersdorff, and H. C. Waterman, assistants.

Tea Inspection. G. F. MITCHELL, *in charge.*

This office examines importations of tea at various ports of entry, admitting only those shipments that meet the required standard.

Scientific staff.—H. F. Brown, L. G. Fenton, E. C. Griswold, C. F. Hutchinson, C. Toohey, and G. A. Weiant, assistants.

Water and Beverage Laboratory. J. W. SALE, *Chemist in Charge.*

This laboratory studies the composition of waters, brines, salts, and nonalcoholic beverages, and analyzes samples of such products taken in the enforcement of the food and drugs act. It investigates sanitary and technical problems relating to the production of bottled waters, nonalcoholic beverages, and related products.

Scientific staff.—C. H. Badger, Anna E. Mix, J. B. Wilson, and W. A. Schaefer, assistants.

Special investigations.—L. H. Almy, J. Davidson, F. B. La Forge, C. R. Smith, and E. T. Wherry.

Field Investigation Service.**Fruit and Vegetable Chemistry Laboratory.** E. M. CHACE, *Chemist in Charge.*

This laboratory directs its attention to devising methods for the utilization of cull oranges and lemons. With this in view, methods are being studied for the manufacture of citric acid, oils of lemon and of orange, concentrated orange juice, and orange vinegar. It conducts investigations relating to the maturity of fruits and vegetables. It also makes investigations and cooperates with individuals, firms, or corporations owning or operating plants for drying or dehydration of vegetables, fruits, and other perishable edible products, in order to determine the best means and processes of dehydration, and to disseminate information as to the value and suitability of these products for food.

Scientific staff.—C. G. Church, F. E. Denny, C. R. Gross, P. F. Nichols, W. A. Noel, H. D. Poore, and Ray Powers, assistants.

Field Regulatory Service.**Food and Drug Inspection.**

The country has been divided into three food and drug inspection districts, eastern, central, and western, each with a chief in charge, who has immediate supervision of the branch stations and the inspectors within his district. The eastern inspection district (W. R. M. Wharton,² New York) includes the stations in Baltimore (D. M. Walsh³), Boston (G. H. Adams³), Buffalo (H. H. Wagner³), New York (H. W. Redfield³), Philadelphia (C. S. Brinton³), San Juan (W. J. McGee³), Savannah (J. O. Clarke³). The central inspection district (R. E. Doolittle,² Chicago) includes the stations in Chicago (G. W. Hoover³), Cincinnati (A. E. Paul³), Kansas City (H. W. Garrett³), Minneapolis (H. Runkel³), New Orleans (R. S. Hollingshead³), and St. Louis (E. R. Smith³). The western inspection district (R. W. Hiltz,² San Francisco) includes the stations in Denver (G. J. Morton³), San Francisco (W. Vincent³), and Seattle (A. W. Hansen³).

² Chief of district.

³ Chief of station.

There is a corps of 45 food and drug inspectors in the field. This force is in charge of the field operations connected with the enforcement of the food and drugs act. Its duties include the collection and analyses of official samples of foods and drugs, the inspection of establishments manufacturing products subject to the act, and such other investigations as are necessary in connection with its enforcement. The preliminary steps in the development of prosecutions under the food and drugs act are taken by the field stations. The field laboratories also supervise importations of foods and drugs at the various ports. In addition to the regulatory work, the laboratories are called upon to examine many samples submitted by other branches of the Government service.

BUREAU OF SOILS.

Soil Physicist and Chief of Bureau, MILTON WHITNEY; *Assistant to the Chief*, A. G. RICE; CHAS. H. SEATON, *Editor*.

The Bureau of Soils investigates the relation of soils to climate and organic life; studies the texture and composition of soils in field and laboratory; and maps and classifies the soils in selected areas in the different parts of the country.

The bureau prepares annually the report of the Field Operations of the Bureau of Soils, which contains a detailed description of the soils and of the agricultural conditions of the various areas surveyed, points out the present use of the soils, and discusses possible changes in crops and methods of cultivation. Large-scale lithographic maps showing the distribution of the different kinds of soils accompany each report.

The bureau investigates domestic fertilizer resources, and carries on work looking to improvement in the methods of fertilizer manufacture, and to the discovery of new materials or new combinations of materials for use in fertilizers.

Soil Chemical Investigations. P. L. GILE, *Scientist in Charge*.

Chemical laboratories are maintained for the investigation of the composition of soil types, the nature and occurrence of soil minerals, the composition of the soil solution, and the properties of soils in their relation to origin, texture, and productiveness. Routine chemical work in connection with the Soil Survey and other divisions of the bureau and other offices and bureaus of the department is also carried on.

Scientific staff.—William H. Fry, J. G. Smith, M. S. Anderson, W. O. Robinson, R. S. Holmes, G. J. Hough, and G. Edgington.

Soil Physical Investigations. R. O. E. DAVIS, *Scientist in Charge*.

In the physical laboratories investigations of the properties of the soil are carried on and a study made of their economic bearing; the moisture relations, aeration, heat conductivity, texture, and other physical properties are investigated in their relation to soil productivity; mineralogical and mechanical analyses are made of soil types for the Soil Survey parties; and apparatus for field parties and for other divisions of the bureau is constructed and tested.

Scientific staff.—J. B. Kershaw, J. B. Spencer, L. B. Olmstead, H. E. Middleton, A. A. White, and Victor J. Jacquot, Jr

Investigations of Fertilizer Resources.

Investigations are made into the fertilizer resources of the United States with a view to discovering new sources of fertilizer materials and to utilizing for fertilizer many waste products; improvement in existing methods of manufacture, and the study of new methods are carried out.

Scientific staff.—H. Bryan, C. B. Durgin, C. J. Crawley, W. H. Ross, C. C. Fletcher, T. B. Turley, J. W. Turrentine, W. H. Waggaman, R. F. Gardiner, William Hazen, R. Jones, K. D. Jacob, F. A. Barker, and H. W. Easterwood.

Soil Survey Investigations. CURTIS F. MARBUT, *Scientist in Charge*; GEORGE W. BAUMANN, *Executive Assistant*.

The work of the Soil Survey includes the study of the field characteristics of soils, the formulation of definitions and descriptions for individual soil types on the basis of their field characteristics, the identification of the various soil types thus defined, and the determination of their distribution, area, relationships, and agriculture in the United States. The work is carried on mainly by the detailed study of small unit areas such as counties and experiment-station farms, in many cases in cooperation with various State organizations.

Scientific staff.—Inspectors: Southern division, W. E. Hearn and H. H. Bennett; Northern division, T. D. Rice and W. E. McLendon; Western division, M. H. Lapham. Soil specialist: J. E. Lapham. Soil surveyors: A. C. Anderson, Mark Baldwin, Miles W. Beck, R. T. A. Burke, E. J. Carpenter, W. T. Carter, jr., E. B. Deeter, R. E. Devereux,

J. A. Elwell, E. D. Fowler, W. J. Gelb, R. L. Gillett, Alvin W. Goke, Frank A. Hayes, B. H. Hendrickson, R. C. Journey, John A. Kerr, E. W. Knobel, A. E. Kocher, W. J. Latimer, H. G. Lewis, Clarence Lounsbury, C. B. Manifold, S. O. Perkins, S. W. Phillips, J. M. Snyder, A. T. Strahorn, W. W. Strike, A. T. Sweet, A. E. Taylor, W. E. Tharp, James Thorp, W. I. Watkins, E. B. Watson, Robert Wildermuth, L. A. Wolfanger, and F. O. Youngs.

BUREAU OF ENTOMOLOGY.

Entomologist and Chief of Bureau, L. O. HOWARD; *Entomologist and Assistant Chief of Bureau*, C. L. MARLATT; *Assistant to Chief*, E. B. O'LEARY; *Administrative Assistant*, A. J. LEISTER; *Editor*, ROLLA P. CURRIE; *Librarian*, MABEL COLCORD.

The Bureau of Entomology studies insects with special reference to methods of control, experiments with the introduction of beneficial insects, makes tests with insecticides and insecticide machinery, and identifies insects sent in by inquirers. Field laboratories are located throughout the country.

Southern Field Crop Insect Investigations. W. D. HUNTER, *Entomologist in Charge*; J. L. WEBB, *Entomologist, acting in charge*.

These investigations deal with insect pests of cotton, tobacco, sugar cane, peanuts, and rice, and are planned to reveal practical methods of control. Special attention is given to the Mexican cotton-boll weevil and its parasitic enemies. An investigation of the Argentine ant is included.

Scientific staff.—A. C. Morgan, B. R. Coad, and T. E. Holloway, entomologists; G. A. Maloney, agent; T. C. Barber and S. E. Crumb, entomological assistants; G. L. Garrison, assistant entomologist; F. S. Chamberlin, R. W. Moreland, Joseph N. Tenhet, J. U. Gilmore, K. B. McKinney, W. W. Porter, Rowland Cowart, Adolph Thomae, George L. Smith, W. A. Stevenson, J. V. Vernon, and V. V. Williams, scientific assistants; H. C. Young, junior entomologist; F. F. Bondy, T. P. Cassidy, W. B. Williams, and M. T. Young, cotton entomologists; Joe Milam, special field agent; S. T. Howard, mechanical engineer; R. C. Gaines and W. E. Haley, field assistants in insect control.

Cereal and Forage Insect Investigations. W. R. WALTON, *Entomologist in Charge*.

The clover and alfalfa seed chalcis-fly, wireworms, grasshoppers, the corn leaf-aphis and the corn root-aphis, the alfalfa weevil, the fall army worm, the Hessian fly, the corn earworm, the southern corn rootworm, false wireworms, the alfalfa caterpillar, the chinch bug, white grubs, the western army cutworm, jointworms, the European corn borer, the sorghum midge, and the clover and alfalfa root curculio are among the objects of these investigations. Seventeen field stations and three substations in cooperation with the farmer are distributed over the United States. Thus insects involved in the injury of all cereal and forage crops are investigated from an economic point of view throughout the entire area of distribution. In this way it is practicable to investigate any insect as affected by every variation of condition under which the farmer is obliged to contend with it in his own fields. Investigations are carried out as far as possible in the fields of the farmer, who is thus enabled to see what is being done.

Scientific staff.—G. I. Reeves, W. J. Phillips, C. N. Ainslie, A. B. Gahan, V. L. Wildermuth, G. A. Ainslie, Philip Luginbill, H. P. Wood, and R. A. Vickery, entomological assistants; A. F. Satterthwait, L. P. Rockwood, T. R. Chamberlin, C. M. Packard, C. C. Hill, P. R. Myers, Samuel Blum, W. B. Cartwright, W. A. Baker, Kenneth M. King, W. H. Larrimer, Max M. Reeher, B. G. Thompson, E. V. Walter, W. O. Ellis, B. E. Hodgson, H. L. Parker, R. J. Kewley, J. S. Wade, W. B. Turner, J. R. Horton, M. C. Lane, H. R. Painter, F. W. Poos, K. W. Babcock, G. W. Barber, H. D. Smith, F. M. Wadley, and Sadie E. Keen, scientific assistants; J. S. Pinckney, C. H. Brannon, L. H. Patch, and W. B. Noble, junior entomologists; D. J. Caffrey, assistant in charge, corn-borer investigations; D. W. Jones, entomologist in insect parasitology; C. H. Gable, specialist in alfalfa insects; W. R. Thompson, specialist; L. H. Worthley, expert in charge, corn-borer control; Stewart Lockwood, specialist in Orthoptera; C. W. Lewis, C. E. Towle, Saul Phillips, T. R. Richardson, H. N. Bartley, E. E. Russell, and E. G. Brewer, field superintendents in insect control; R. A. Blanchard, K. M. Pack, H. H. Walkden, G. P. Babson, T. M. Cannon, W. B. Clark, J. W. Enwright, F. L. Fall, C. O. Larrabee, L. B. Sanderson, F. S. Vidler, D. H. Craig, and R. C. Ellis, field assistants in insect control; R. C. Lange and Marian Martinez, entomological laboratory assistants.

Deciduous-Fruit Insect Investigations. A. L. QUAINANCE, *Entomologist in Charge*.

Insects injurious to orchards, vineyards, and nut trees are studied in this work. Field laboratories are maintained in important fruit-growing regions, as in California, Oregon, Georgia, New Jersey, Arkansas, Ohio, North Carolina, and Connecticut,

and Japan. Experiments in the use of insecticides and spraying apparatus are made. The important projects include: Investigations of apple insects, as the codling moth, apple borers, apple aphids, etc.; investigations of peach insects, as the peach borer, plum curculio, etc.; investigations of grape insects, as the grape-berry moth and miscellaneous grape insects; Japanese beetle control operations in cooperation with the Federal Horticultural Board and the New Jersey and Pennsylvania Departments of Agriculture; investigations of nut insects, as those affecting the pecan and chestnut, and the general subject of insecticides and spraying machinery.

Scientific staff.—C. P. Clausen and J. L. King, specialists; A. C. Baker, F. E. Brooks, E. H. Siegler, W. S. Abbott,⁴ C. H. Hadley, L. B. Smith, M. A. Yothers, J. B. Gill, G. A. Runner, E. J. Newcomer, A. J. Ackerman, B. R. Leach, and O. I. Snapp, entomologists; William Moore, agent; C. W. Stockwell, T. H. Frison, and W. F. Runyen, plant quarantine inspectors; J. F. Jamison, assistant entomological inspector; N. E. McIndoo and C. H. Richardson, insect physiologists; R. W. Kelley, special field agent; J. J. Culver,⁴ assistant entomologist; W. M. Davidson,⁴ A. J. Fiebut, W. D. Whitcomb, B. A. Porter, P. W. Mason, C. H. Alden, A. I. Fabis, F. J. Brinley, and E. R. Van Leeuwen, scientific assistants; H. A. Jaynes, junior entomologist; A. R. Whitcraft, Clifford Bintliff, and R. W. Coles, field assistants in insect control; D. L. Van Dine, collaborator.

Tropical and Subtropical Fruit Insect Investigations. A. L. QUAINANCE, *Entomologist in Charge.*

Insects affecting all tropical and subtropical fruits are subjects of research, including those affecting the various species of citrus, olive, fig, etc., and greenhouse pests. The principal methods of control are investigated, namely, fumigation with hydrocyanic acid gas, trapping, and spraying with contact and poison insecticides. The important projects include: Citrus-fruit insect investigations in Florida, investigations of the Argentine ant in relation to citrus fruits, investigations of insects affecting tropical and subtropical plants in greenhouses, investigations of Mediterranean and other fruit flies in Hawaii and the Canal Zone, investigations of miscellaneous subtropical insects, and, in cooperation with the Federal Horticultural Board, control of export Hawaiian fruits and control of foreign fruit offered for entry.

Scientific staff.—W. W. Yothers, G. F. Moznette, H. F. Willard, C. A. Weigel, and Harold Morrison, entomologists; W. M. Mann and A. C. Mason, assistant entomologists; Florence Bowman, Bessie M. Broadbent, and C. F. Doucette, scientific assistants; Gladys Hoke, junior entomologist; James Zetek, specialist in tropical fruit insects; T. F. Bissell, plant quarantine inspector; Ignacio Molino, entomological laboratory assistant; E. R. Sasscer, collaborator.

Truck-Crop Insect Investigations. F. H. CHITTENDEN, *Entomologist in Charge.*

Determination, by the usual field experimental and research methods, of the cause, extent, and character of insect injury to vegetable and truck crops, and of the most effective measures of prevention and control. The insects investigated include those affecting the potato, sweet potato, cabbage and other cole crops, beans, peas, and other leguminous food crops, tomato, onion, and melons, cucumber, and other cucurbits. Special attention is given to the Colorado potato beetle, potato-tuber moth, potato aphid, potato leafhopper, potato flea-beetles, onion thrips, bean aphid and pea aphid, cabbage worms and loopers, cabbage flea-beetles, root-maggots, cabbage and spinach plant-lice, cucumber beetles, squash bugs, tarnished plant-bug, cutworms, wireworms, grasshoppers, mole-cricket, tomato fruitworm, blister beetles, strawberry weevil, strawberry leaf-rollers, raspberry cane-borers; insects injurious to greenhouse vegetables and certain miscellaneous crops; determination of the life history of sugar-beet infesting insects, including leafhoppers, the root-aphid, sugar-beet webworms, wireworms, false chinch bug, beet leaf-beetles, white grubs, and other pests; and studies of the agency of insects in the transmission of cucumber and melon wilt and mosaic, potato blight, curly-top of sugar beets, anthracnose of beans, and similar diseases. This office is especially charged with the direction of the campaign for the control and eradication of the sweet-potato weevil in the Gulf States and of the special appropriation for the control of the Mexican bean beetle in its new habitat in the South-Central and Atlantic States.

Scientific staff.—C. H. Popenoe and J. E. Graf, entomologists; N. F. Howard, R. E. Campbell, and Luther Brown, assistant entomologists; M. M. High and D. E. Fink, entomological assistants; B. L. Boyden, K. L. Cockerham, J. E. Dudley, Jr., L. L. English, C. E. Smith, C. F. Stahl, W. E. Stone, W. A. Thomas, W. H. White, D. H. Blake, and J. W. McGlamery, scientific assistants; E. M. Searls, field assistant in insect control;

⁴ Employed in "Enforcement of insecticide act."

S. H. Roundtree and W. M. Prevatt, agents; S. C. Brummitt, W. H. Merrill, F. A. Wright, Troy Thompson, and F. R. White, field assistants in sweet-potato weevil eradication; L. W. Brannon, T. F. Catchings, F. P. Bickley, and H. B. Lancaster, junior entomologists; D. M. Dowdell, jr., plant quarantine inspector.

Stored-Product Insect Investigations. E. A. BACK, *Entomologist in Charge.*

Studies of both common and newly introduced insects injuriously affecting stored wheat, corn, oats, and other grains and flour, meal, and other mill products, including all cereal foodstuffs in flour mills, elevators, and warehouses, involving special investigation of railway and steamboat lines as carriers of infestation; study of the insect enemies of dried fruits and nuts, beans, peas, and cowpeas, and cured meats, hides, furs, and manufactured fabrics; and investigation and demonstration of appropriate measures for the control of such insects, including tests of promising and standard fumigants and other insecticides against these species, and of kiln-drying and heat methods against grain pests, especially grain weevils, and of those attacking edible legumes.

Scientific staff.—A. O. Larson, assistant entomologist; R. T. Cotton and Perez Simmons, scientific assistants; A. H. Amis and M. E. Phillips, junior entomologists; J. C. Bridwell, specialist in Bruchidae and their parasites; S. E. McClendon, field assistant in insect control; D. B. Mackie, collaborator; Marion T. Van Horn, entomological laboratory assistant.

Forest Insect Investigations. A. D. HOPKINS, *Entomologist in Charge.*

Investigations are conducted in the field and laboratory of the scientific and economic problems in connection with insects affecting forest, shade, and ornamental trees and hardy shrubs and forest products, with an ultimate view to the development and perfection of practical methods of control and prevention. These investigations include studies of beneficial as well as destructive insects as they affect such trees and shrubs in life and in all subsequent stages of use. Permanent field stations are distributed in the principal forested areas of the country, to serve as headquarters and centers of their respective districts, for the investigation of local insect problems. Demonstrations of practical control methods are undertaken through correspondence with private individuals or officers in charge of forests, wood lots, parks, or city shade trees and ornamental shrubs, or who have direct supervision of control projects.

Scientific staff.—J. M. Miller (in charge of station at Northfork, Calif.), entomologist; J. C. Evenden (in charge of station at Coeur d'Alene, Idaho), assistant entomologist; F. P. Keen (in charge of station at Klamath Falls, Oreg.), assistant entomologist; J. E. Patterson (in charge of station at Ashland, Oreg.), entomological ranger; H. E. Burke (in charge of shade-tree insect laboratory at Palo Alto, Calif.), entomologist; W. D. Edmonston (in charge of Southern Rocky Mountain station at Colorado Springs, Colo., and temporary substation, Tucson, Ariz.), entomologist; A. G. Boving, expert; T. E. Snyder and S. A. Rohwer, entomologists; William Middleton and R. A. St. George, scientific assistants; R. D. Hartman, field superintendent in insect control; A. J. Jaenicke, forest examiner; H. J. Rust, George Hofer, Albert Wagner, and E. A. Morrow, entomological rangers; M. A. Murray, entomological laboratory assistant.

Investigations of Insects Affecting the Health of Man and Animals. Under immediate direction of the Chief of Bureau. W. D. HUNTER and J. L. WEBB, *Entomologists.*

This field covers the relation between certain ticks and spotted fever, mosquitoes and malaria and yellow fever, and the house fly and typhoid fever. The investigations also deal with insects as internal and external parasites of animals and seek practical methods for their control. A number of pests affecting domestic animals, including the cattle tick, the stable fly, and the horn fly, are being studied.

Scientific staff.—F. C. Bishopp, W. V. King, and R. W. Wells, entomologists; D. C. Parman, entomological assistant; E. W. Laake and George H. Bradley, scientific assistants; H. M. Brundrett, junior entomologist; O. G. Babcock, special field agent.

Investigations in Bee Culture. E. F. PHILLIPS, *Apiculturist in Charge.*

The structure, development, and behavior of the bee are subjects of investigation. Special attention is given to methods of wintering bees, both in cellars and outdoors, with chief emphasis at present on the effect on colony strength in spring and on the brood rearing previous to the honey flow. Bee diseases are being thoroughly studied. A study is also being made of the methods of beekeeping best adapted to honey production in the different typical beekeeping regions of the United States. Better beekeeping and the production of larger crops of honey are stimulated through the efforts of field workers in cooperation with several of the more important beekeeping States and by means of extension short courses for beekeepers.

Scientific staff.—Jas. I. Hambleton, A. P. Sturtevant, and W. J. Nolan, apicultural assistants; E. L. Sechrist, assistant in beekeeping; C. L. Sams, R. B. Wilson, and L. P. Whitehead, agents.

Gipsy Moth and Brown-Tail Moth Investigations. A. F. BURGESS, *Entomologist in Charge.*

A large field force is maintained in New England in the work of preventing the spread of these two moths by scouting and clean-up work in the field. A laboratory has been established for the assemblage, study, and liberation of imported parasites and diseases affecting these moths. The work of the parasites and their natural enemies is studied in the field, and many experiments are conducted for the purpose of devising better methods for use in field operations. A quarantine is maintained in cooperation with the Federal Horticultural Board, and all products likely to carry these insects are inspected before they are shipped from the infested area.

Scientific staff.—H. L. McIntyre, gipsy moth assistant, preventing spread of moths; D. M. Rogers, assistant in charge of gipsy moth quarantine and inspection; C. W. Collins, S. S. Crossman, F. H. Mosher, and R. Wooldridge, entomological assistants; S. M. Dohanian, C. E. Hood, J. V. Schaffner, jr., J. N. Summers, and R. T. Webber, scientific assistants; M. T. Smulyan, specialist in insects as carriers of insect diseases; C. F. W. Muesebeck, specialist in parasitic Hymenoptera; P. S. Coffin, W. A. Collins, F. W. Foster, L. E. Gibson, H. R. Gooch, F. W. Graham, I. T. Guild, J. E. R. Holbrook, H. J. Miles, C. W. Minott, D. G. Murphy, W. A. Shinkwin, H. W. Vinton, A. W. Young, and H. I. Winchester, gipsy moth assistants; M. T. Sheerin, entomological laboratory assistant; I. L. Bailey, plant quarantine inspector; C. T. Davis and C. A. McIsaac, assistant entomological inspectors; H. L. Blaisdell, H. A. Ames, H. N. Bean, and F. W. Graves, jr., field superintendents in insect control; W. J. Ahearn, W. W. Bancroft, C. M. Emerson, M. H. Feeney, G. J. Galvin, D. Harrington, J. Keefe, F. L. Keene, R. W. Kennedy, J. F. Keough, C. A. Manchester, S. E. May, J. F. McDevitt, P. H. Meagher, J. A. Millar, G. A. Miller, J. F. Murray, W. J. Nestlé, I. B. Newbegin, L. H. Noble, J. A. Priest, J. J. Roach, W. Sarsfield, and A. C. Ward, field assistants in insect control.

Insect Pest Survey. J. A. HYSLOP, *Entomologist in Charge.*

The object of the survey, established during 1921, is to collect scientific data on insect conditions throughout the country, to study these data from month to month and year to year with relation to the several factors that cause insect outbreaks, and to prepare this information in the form of publications for the immediate use of all entomological workers throughout the country. The service obtains its information from 59 collaborators located in the several States. These are largely entomologists of the agricultural experiment stations, State entomologists, and entomologists in the State universities and agricultural colleges. Each collaborator assumes responsibility for collecting information on all insect outbreaks within his respective territory and transmitting it to the central office in Washington, where it is digested, correlated, and edited for publication.

Miscellaneous Investigations. Under immediate direction of the Chief of Bureau.

The naming, classification, and establishment of the systematic relationships of all insects which are being studied in the various laboratories of the bureau and the identification of similar material submitted by the agricultural experiment stations and by scientific workers are included under this head.

Scientific Staff.—Rolla P. Currie, entomologist; R. A. Cushman and C. S. Menagh, entomological assistants; William Schaus, specialist in Lepidoptera; Carl Heinrich, specialist in forest Lepidoptera; H. E. Ewing, specialist in mites; W. S. Fisher, specialist in forest Coleoptera; C. T. Greene, specialist in Diptera; E. A. Schwarz, A. N. Caudell, and H. S. Barber, assistants.

Editorial Office. ROLLA P. CURRIE, *Editor*; LUCILE H. QUARRY, *Assistant*.

The Editorial Office attends to the editing of manuscripts, the reading of proofs of publications and other printed matter, correspondence relating to manuscripts, proofs, and publications, and other work of a similar nature.

BUREAU OF BIOLOGICAL SURVEY.

Biologist and Chief of Bureau, E. W. NELSON; *Assistant Chief,* W. C. HENDERSON; *Assistant to Chief,* A. B. MORRISON; *Assistant in Operations,* E. J. THOMPSON; *Chief Clerk,* T. E. JACOBY; *Editor,* W. H. CHEESMAN.

The Bureau of Biological Survey studies the distribution and habits of native wild life, makes biological surveys of areas and from these investigations maps the natural life zones of the country, investigates the relation of wild birds and animals to agriculture

and stock raising with a view to the control of the harmful and the conservation of the useful species, conducts campaigns for the extermination of predatory wild animals, destructive rodents, and other injurious forms, experiments in fur farming and studies the diseases to which fur bearers are subject in domestication, makes investigations for the improvement of Alaskan reindeer herds, and administers Federal laws relating to game and bird reservations, to migratory game, nongame, and insectivorous birds, to importations of foreign wild birds and animals, to interstate commerce in wild birds and game, and to Alaskan land fur-bearing animals.

Biological Investigations.

E. A. GOLDMAN, *Assistant in Charge*.

Investigations of Wild Animal Life. E. A. GOLDMAN, *Assistant in Charge*; E. A. PREBLE, *Assistant Biologist*.

Under this project field investigations are made to learn the geographic distribution and life habits of native wild animals and birds, and technical studies are made to determine their relationships and classification as a foundation for the efficient handling of most of the problems of the Survey. The information obtained is especially useful in the conservation of valuable species, particularly game birds and mammals and fur-bearing animals, and in restocking areas in which species have become extinct; also in connection with plans for the control or extermination of species injurious to agriculture and stock raising. Maps are made of the distributional areas of each species and of the summer and winter ranges and migration routes of birds, the latter determined through regular reports from several hundred volunteer observers and through work of field parties. These studies, together with counts of birds on selected areas throughout the country, serve as a basis for Federal and State protective legislation. Specimens of animals and birds are identified for Government bureaus, scientific and educational institutions, and private individuals.

Scientific staff.—Vernon Bailey, A. H. Howell, H. H. T. Jackson, F. C. Lincoln, H. C. Oberholser, W. P. Taylor, Alexander Wetmore.

Biological Surveys of States and Territories. E. A. GOLDMAN, *Assistant in Charge*; H. H. T. JACKSON, *Assistant Biologist*.

Surveys are made of States or other definite areas to determine the range, habits, and abundance of the native wild animal life occurring therein and the distribution of native plant life, to obtain information of use in the conservation of wild life and the determination of boundaries of natural life zones. The life-zone work in each State serves as a unit in completing the mapping of the life zones of the entire country. The published results of these studies and of other wild-life investigations appear in the North American Fauna series of the Biological Survey as well as in other publications of the Department.

Scientific staff.—Vernon Bailey, A. H. Howell, H. C. Oberholser, E. A. Preble, W. P. Taylor.

Biological Investigations of Migratory Birds. H. C. OBERHOLSER and ALEXANDER WETMORE, *Assistant Biologists*.

Under this project investigations are made of conditions in breeding grounds and winter resorts of migratory birds; enumerations are made of migratory waterfowl; and general studies are conducted in bird migration as a basis for determining suitable regulations for promulgation under the migratory-bird treaty act.

Scientific staff.—A. H. Howell, F. C. Lincoln.

Life Habits of Injurious Animals. E. A. GOLDMAN, *Assistant in Charge*.

Under this project, which is closely correlated with a project of the Division of Economic Investigations, studies are made of the life habits and geographic distribution of rodents and predatory animals injurious to agriculture, horticulture, forestry, animal husbandry, and wild game.

Scientific staff.—Vernon Bailey, W. P. Taylor.

Economic Investigations.

A. K. FISHER, *Assistant in Charge*; W. B. BELL, *Assistant Biologist*.

Food Habits of Injurious Animals. E. A. GOLDMAN, *Assistant in Charge*, *Biological Investigations*.

Under this project, which is closely correlated with a project of the Division of Biological Investigations, the food habits of rodents and predatory animals injurious to agriculture, horticulture, forestry, animal husbandry, and wild game are investigated with a view to their control or eradication.

Scientific staff.—Vernon Bailey, T. H. Scheffer.

Eradication Methods. S. E. PIPER, *Assistant Biologist*.

Investigations are made leading to the determination of practical methods for the control and eradication of rodents and predatory animals.

Field staff.—E. E. Horn, H. E. Williams.

Destruction of Injurious Rodents. W. B. BELL, *Assistant Biologist*; LISLE MORRISON, *Assistant*.

Under this project extensive campaigns are carried on in national forests and other public domain to destroy prairie dogs, ground squirrels, pocket gophers, rabbits, and other rodents destructive to forest, orchard, and nursery stock, farm produce, and the range. Demonstrations are also made in farming and other districts of improved methods of combating these animals as well as house rats and mice.

Field staff.—C. F. Bliss, G. H. Browne, L. K. Couch, W. E. Crouch, A. M. Day, P. L. De Puy, John Finley, B. E. Foster, I. N. Gabrielson, F. E. Garlough, J. C. Gatlin, D. A. Gilchrist, A. E. Gray, D. D. Green, H. G. Hansen, F. N. Jarvis, Joseph Keyes, R. E. Luckenbill, B. J. Melton, A. W. Moore, T. B. Murray, A. E. Oman, C. E. Reno, B. B. Richards, E. R. Sans, James Silver, Otis Wade, H. R. Wells, L. C. Whitehead, R. S. Zimmerman.

Destruction of Predatory Animals. W. B. BELL, *Assistant Biologist*; LISLE MORRISON, *Assistant*.

Active campaigns are undertaken for the destruction of wolves, coyotes, mountain lions, and other animals destructive of live stock and poultry.

Field inspectors.—G. R. Bach, R. E. Bateman, C. J. Bayer, C. F. Bliss, O. L. Coleman, J. W. Crook, Samuel Driggs, L. J. Goldman, G. E. Holman, R. T. Jackson, S. G. Jewett, Louis Knowles, C. R. Landon, J. S. Ligon, M. E. Musgrave, Kenneth P. Pickrell, E. L. Pineau, C. G. Poole, E. F. Pope, A. L. Rasmussen, Edward Rasmussen, F. V. D. Reed, E. R. Sans, R. K. Stewart, G. M. Trickel, B. B. Turner, Elmer Williams, H. P. Williams, S. P. Young.

Production of Fur-Bearing Animals. F. G. ASHBROOK, *Assistant Biologist*.

Investigations in fur farming are concerned with determining productive and economical methods of rearing foxes, minks, martens, and other fur-bearing animals in captivity; ascertaining areas suitable to the industry; and studying the diseases and parasites to which fur bearers are subject in captivity.

Field staff.—K. B. Hanson and H. L. Van Volkenberg (Keeseville, N. Y.).

Food Habits Research.

W. L. MCATEE, *Assistant in Charge*.

Relation of Native and Introduced Birds to Agriculture.

Field and laboratory investigations are made to determine the economic relations of birds to agriculture, horticulture, and forestry, and thus provide a rational basis for their popular and legislative treatment; to devise and recommend methods of encouraging and protecting the useful species and of controlling the harmful ones; and to study methods of attracting desirable species to home grounds and bird sanctuaries, and methods of propagating and caring for cage, game, and ornamental birds. The food habits of waterfowl and upland game birds are investigated and surveys made of the wild-fowl resorts for the purpose of aiding in the improvement of their food resources. Studies are made of the diseases of wild birds, and laboratory investigations are made of the food habits of mammals also.

Scientific staff.—L. L. Buchanan, E. R. Kalmbach, Remington Kellogg, J. R. Malloch, F. P. Metcalf, C. C. Sperry, H. L. Viereck.

Relation of Reptiles and Amphibians to Agriculture.

Field and laboratory investigations are made of the economic relations of reptiles and amphibians to agriculture, horticulture, and forestry, in order to determine a rational basis for public policy toward these animals.

Scientific staff.—Remington Kellogg.

Economic Investigations of Migratory Birds.

The object of this project is to determine the economic value of birds protected by the migratory-bird treaty act as a basis for continuing their protected status or of modifying it when found advisable; to study the food habits of migratory game birds as related to the maintenance and increase of their numbers; and to make surveys of the feeding resorts of these and other migratory birds with a view to improving them and locating areas which may be set aside as bird refuges.

Scientific staff.—E. R. Kalmbach, Remington Kellogg, F. P. Metcalf, C. C. Sperry.

Game and Bird Reservations.SMITH RILEY, *Acting Assistant in Charge.*

This division has supervision over the 69 Federal big-game and bird, reservations; the 5 big-game reservations are the Montana National Bison Range; the Winter Elk Refuge, in Jackson Hole, Wyoming; the Wind Cave National Game Preserve, South Dakota; the Sullys Hill National Game Preserve, North Dakota; and the Niobrara Reservation, Nebraska. It restocks national reservations by capturing, purchasing, and transporting big game, and administers the refuges, nesting grounds, and public shooting on the bird reservations.

Reservation inspectors.—F. M. Dille (Valentine, Nebr.); B. J. Pacetti (Ponce Park, Fla.).

Enforcement of the Migratory-Bird Treaty and Lacey Acts.GEO. A. LAWYER, *Chief United States Game Warden in Charge.***Protecting Migratory Birds and Regulating Interstate Commerce in Game.**

GEO. A. LAWYER, *Chief U. S. Game Warden*; TALBOTT DENMEAD, *Deputy Chief*; W. ROY DILLON, *Assistant*; FRANK L. EARNSHAW, *Assistant, Interstate Commerce in Game.*

The migratory-bird treaty and Lacey Acts are enforced by 28 United States game wardens, each assigned to a particular district, who are rendered valuable aid by the game authorities of most of the States, and in addition by approximately 400 United States deputy game wardens who render cooperative service and receive only nominal salaries. Information concerning game is prepared for publication; card indexes of State game laws and laws relating to fur-bearing animals as well as various indexes of information concerning these subjects are maintained; a summary of State and Federal game laws, laws relating to fur-bearing animals, a game-law poster, and a directory of game-protection officials are issued annually. Violations of these acts are investigated, the necessary evidence collected, and the first steps taken in preparing each case for legal action.

United States game wardens.—Bertrand E. Smith (Portland, Me.), Albert Stadlmeir (East Providence, R. I.), P. S. Farnham (Owego, N. Y.), P. K. Hilliard (Pleasantville, N. J.), Thomas T. Bloxson (Locustville, Va.), William L. Birsch (Norfolk, Va.), B. J. Pacetti (Ponce Park, Fla.), E. B. Whitehead (Thomasville, Ga.), William H. Hoffman (Mobile, Ala.), John E. Perry (Memphis, Tenn.), S. W. Linebaugh (Russellville, Ky.), Marquis A. Charlton (Columbus, Ohio), B. G. Merrill (Hinsdale, Ill.), ——— (Milwaukee, Wis.), B. J. Shaver (St. Paul, Minn.), J. V. Kelsey (Watertown, S. Dak.), E. A. Lindgren (Council Bluffs, Iowa), John Q. Holmes (Orleans, Nebr.), Harry Barmeier (St. Louis, Mo.), E. V. Visart (Little Rock, Ark.), George C. Shupee (Beaumont, Tex.), B. R. Britton (Socorro, N. Mex.), ——— (Sacramento, Calif.), George E. Mushbach (Billings, Mont.), George Tonkin (Baker, Oreg.), R. C. Steele (Portland, Oreg.), W. H. Ransom (Spokane, Wash.), E. P. Walker (Juneau, Alaska).

Investigations of Migratory Birds. E. A. GOLDMAN, *Assistant in Charge Biological Investigations*; W. L. MCATEE, *Assistant in Charge Food Habits Research.*

Under this project investigations are made under direction of the divisions of Biological Investigations and Economic Investigations of conditions in the breeding grounds and winter resorts of migratory birds, for the purpose of obtaining information to use as a basis for determining suitable regulations for promulgation under the migratory-bird treaty act.

Importations of Foreign Birds and Mammals. T. S. PALMER, *Expert in Game Conservation.*

Under this project permits are issued for importations, and regulations are prepared governing the entry, of foreign wild birds and animals.

Importation inspectors.—New York: B. S. Bowditch, W. DeWitt Miller; Philadelphia: W. L. Baily; Baltimore: W. H. Fisher; San Francisco: H. C. Bryant, Joseph Grinnell, T. I. Storer; Honolulu: E. M. Ehrhorn.

Alaska Investigations.

E. W. NELSON, *Chief of Bureau, in Charge*; W. F. BANCROFT, *Assistant in Game Conservation.*

Reindeer Investigations in Alaska.

Under this project scientific investigations are made for the improvement and increase of the reindeer herds in Alaska for the purpose of supplementing the meat supply in that Territory and in the United States.

Scientific staff.—Lawrence J. Palmer, assistant in charge, reindeer grazing investigations (Nome); Herbert W. Johnston, field assistant (Nome); Olaus J. Murie, assistant biologist (Fairbanks); Elmer T. Forsling, field assistant (Nome).

Protection of Land Fur-Bearing Animals in Alaska.

Under this project regulations are prepared and other work is carried on in connection with the enforcement of the law with respect to land fur-bearing animals in Alaska and the encouragement of fur farming.

Fur wardens.—Ernest P. Walker, chief fur warden (Juneau); Ray C. Steele (Seattle, Wash.); Donald W. Stevenson (Unalaska).

DIVISION OF PUBLICATIONS.

Chief of Division, JOHN L. COBBS, Jr.; *Chief Clerk,* H. J. DEMAREE.

This division conducts the publication, motion-picture, and related informational work of the department; supervises the expenditure of the appropriation for printing and binding for the department; conducts all business of the department transacted with the Government Printing Office; has general supervision of all editing, printing, indexing, illustrating, binding, and distribution of publications, and the maintenance of the mailing lists.

Motion Pictures. FRED W. PERKINS, *Assistant in Charge*; GEORGE M. GOERGENS, *Chief Cinematographer*.

This office conducts the motion-picture work of the department; prepares scenarios from material secured from the various bureaus; makes and directs the making of motion pictures; supervises the motion-picture laboratory in film production; develops and executes plans for film distribution; and handles the dissemination of information concerning agriculture, forestry, home economics, and other subjects covered by the activities of the department through the medium of motion pictures.

Editorial, Printing, and Indexing. EDWIN C. POWELL, *Chief Editor*; B. D. STALLINGS, *Assistant*; CHARLES H. GREATHOUSE, *Assistant in Charge of Indexing*.

The work of this section includes the consideration and critical examination of all manuscripts submitted for publication by the various branches of the department. In making constructive criticisms and suggestions for the improvement of manuscripts, the chief editor is authorized to consult fully and freely with the chiefs of the bureaus, divisions, and offices, the authors of manuscripts, and any other officer or employee of the department.

This section also receives and transmits to the printer all matter to be printed for the department. It keeps the records showing the receipts and forwarding of manuscripts and printing of every description; keeps the accounts in connection with the printing appropriation of the department; receives, distributes, and examines all proof; prepares all correspondence relating to printing and illustrations; and inspects completed work.

Indexes are made to be printed with individual publications, and a general card index is maintained, by subjects, of the contents of all publications of the department.

Illustrations. J. H. STEVENSON, *Assistant in Charge*.

Illustrations, cover designs, maps, graphs, charts, photographs, motion-picture legends, etc., are made or prepared for reproduction, to illustrate the various publications and to accompany the motion pictures of the department, and material of a specialized nature is prepared for educational exhibit purposes.

Photographs, lantern slides, bromides, and transparencies are prepared for use by the department and for sale to the public for educational purposes.

Electrotypes of illustrations appearing in department publications are supplied to outside concerns at commercial rates through regular commercial channels.

Distribution of Publications. FRANCIS J. P. CLEARY, *Assistant in Charge*.

This office receives and directs the distribution of publications designed for department use; maintains the records of the department mailing lists, draws orders upon the Superintendent of Documents, Government Printing Office, for the mailing of department publications; specifies and orders the publications to be sent in response to miscellaneous and congressional requests; executes schemes of distribution for department publications; and keeps all records of the distribution of publications, including the congressional quotas of Farmers' Bulletins.

Addressing, Duplicating, and Mailing. C. E. BRACEY, *Assistant in Charge.*

This section maintains and operates the mechanical addressing system in use in the department; performs duplicating work for various branches of the department, including the mimeographing of press notices; and mails publications for official use, press notices, official circulars, etc.

DIVISION OF ACCOUNTS AND DISBURSEMENTS.

Chief of Division and Disbursing Clerk, A. ZAPPONE; Administrative Assistant, W. J. NEVIUS; Deputy Disbursing Clerk, JOHN J. ACKERMAN.

This division has charge of the disbursement of public funds appropriated for the Department of Agriculture and the keeping of accounts and appropriate ledgers in connection therewith.

Cash Section. A. T. TERWISSE, *Cashier and Chief Clerk.*

This section prepares and mails all checks and handles all moneys received and disbursed.

Bookkeeping Section. WILLIAM R. FUCHS, *in charge.*

This section keeps the books pertaining to the fiscal affairs of the department, prepares requisitions on the Treasury for advance of public funds, and compiles quarterly abstracts of expenditures and collections and an account current covering the liability for public funds; keeps the record of receipts, prepares miscellaneous fiscal statements and reports and handles the records in connection with the Weeks forestry law.

Examining Section. J. M. KEMPER, JR., *in charge.*

This section examines all accounts before payment and has supervision of the classification of expenditures and civil service retirement records.

LIBRARY.

Librarian, CLARIBEL R. BARNETT; Assistant Librarian, EMMA B. HAWKS.

The department library, consisting of the main library and the various bureau, division, and office libraries, contains approximately 165,000 books and pamphlets, including an extensive collection on agriculture and all its branches, a large and representative collection on the sciences related to agriculture, an extensive statistical collection, and a good collection of standard reference books. Periodicals currently received number approximately 3,000. In addition to the department use, books are lent to college and experiment station libraries and other institutions for use in connection with the research work of these institutions. A dictionary card catalogue is maintained consisting of about 470,000 cards. Printed catalogue cards for publications of the department are prepared by the department library and printed at the Library of Congress. The librarian has charge of the foreign mailing lists for department publications.

STATES RELATIONS SERVICE.

Director, A. C. TRUE.

The States Relations Service represents the Secretary of Agriculture in his relations with the State agricultural colleges and experiment stations under the acts of Congress granting funds to these institutions for agricultural experiment stations and cooperative extension work in agriculture and home economics, and in carrying out the provisions of acts of Congress making appropriations to this department for farmers' cooperative demonstration work, including work relating to agricultural schools and farmers' institutes; investigations in home economics, and the maintenance of agricultural experiment stations in Alaska, Hawaii, Porto Rico, Guam, and the Virgin Islands.

Office of the Director.

EUGENE MERRITT, *Assistant to the Director*; Mrs. C. E. JOHNSTON and Miss M. E. RYDER, *Administrative Assistants*; F. E. SINGLETON, *Chief Accountant*; Miss M. L. GERICKE, *Librarian.*

Editorial Division. W. H. BEAL, *Chief.*

This division has charge of the editing and preparation for printing of all publications of the States Relations Service except Experiment Station Record, and of the preparation and distribution of lantern slides and other illustrative material for service

use. It cooperates with the Division of Publications in maintaining mailing lists and distributing publications, in duplicating work, and in preparation of motion pictures. It also cooperates in the work of the Press Service and of the Office of Exhibits of the department.

Staff.—Reuben Brigham, specialist in visual instruction in agriculture, in charge of section of illustrative material; C. H. Hanson, specialist in visual instruction in agriculture.

Agricultural Instruction in Schools. E. H. SHINN, *Chief Specialist in Agricultural Instruction.*

Studies the methods and subject matter of school instruction in agriculture in this and other countries, with a view to determining the needs of such instruction in order to make it practically useful to students who are to become farmers or workers in agricultural institutions, and to furnish schools with up-to-date and properly organized subject matter and illustrative materials in the various branches of agriculture, to supplement and reinforce textbooks and field practices.

Staff.—C. H. Schopmeyer and F. A. Merrill, specialists in agricultural instruction.

Office of Experiment Stations.

E. W. ALLEN, *Chief, and Editor of Experiment Station Record.*

Relations with Institutions for Agricultural Research.

Under this head the office is broadly organized to exercise the supervision provided by law over the funds and operations of the State agricultural experiment stations under Federal appropriations, and to afford such advice and assistance as will best promote their efficiency. It also collects and disseminates information regarding similar institutions throughout the world. Among its activities in relation to the stations are the following:

Examination of Work and Expenditures of the State Experiment Stations.

The office supervises the Federal funds granted to the State agricultural experiment stations under the acts of Congress of March 2, 1887, and March 16, 1906, with respect to the use made of these funds and the kind of work for which they are employed. This duty is assigned especially to the chief, with the assistance of E. R. Flint, J. I. Schulte, Walter H. Evans, and W. H. Beal.

Experiment Station Record.

The office publishes *Experiment Station Record*, a periodical which reviews in abstract the publications of the experiment stations, the Department of Agriculture, and other institutions and agencies reporting investigations in agricultural science in the different countries of the world. The *Record* also contains editorials and notes bearing upon station work. The staff of the *Record* is as follows: Editor, E. W. Allen; Associate editor, H. L. Knight; agricultural chemistry and agrotechny, Sybil L. Smith; meteorology, W. H. Beal; soils and fertilizers, R. W. Trullinger; agricultural botany, bacteriology, and plant pathology, W. H. Evans and W. E. Boyd; field crops, H. M. Steece; horticulture and forestry, J. W. Wellington; economic zoology and entomology, W. A. Hooker; foods and human nutrition, Sybil L. Smith and C. F. Langworthy; animal production and dairying, G. Haines; veterinary medicine, W. A. Hooker and Sybil L. Smith; rural engineering, R. W. Trullinger; rural economics and sociology, and agricultural education, Louise Marbut; and indexes, Martha C. Gundlach. There is also cooperation with W. H. Beal in soils and fertilizers, E. Merritt in rural economics and sociology, and E. H. Shinn in agricultural education.

Division of Insular Experiment Stations. WALTER H. EVANS, *Chief.*

The experiment stations in Alaska, Hawaii, Porto Rico, Guam, and the Virgin Islands of the United States of America are conducted under the general direction of this division.

Alaska Agricultural Experiment Stations. C. C. GEORGESON, Sitka, *Agronomist in Charge.*

The main station in Alaska is at Sitka. Investigations are also carried on at Rampart, in the Yukon Valley; at Kodiak; at Fairbanks, in the valley of the Tanana River; and at Matanuska, near the Government railroad. The work consists of field experiments with vegetables, cereals, and forage plants; horticultural investigations; the maintenance of live stock; the curing of hay and silage; the distribution of seeds; and an agricultural survey of the Territory.

Staff.—G. W. Gasser, assistant in charge, Fairbanks; ———, assistant, in charge, Rampart; W. T. White, assistant, in charge, Kodiak; H. O. White, assistant, Kodiak; ———, assistant, in charge, Matanuska; B. L. Schneider, assistant, Matanuska; Hans Lindberg, assistant, Sitka.

Hawaii Agricultural Experiment Station. J. M. WESTGATE, Honolulu, *Agronomist in Charge*.

The activities of this station are concerned with cotton, rice, forage crops, fiber, and horticultural plants; with soils, plant diseases, insects, and extension and demonstration work. In cooperation with the Hawaiian Government, a demonstration farm is maintained on the island of Hawaii.

Staff.—W. T. Pope, horticulturist; J. C. Ripperton, assistant chemist; H. L. Chung, specialist in tropical agronomy; R. A. Goff, in charge of Glenwood substation and extension agent for island of Hawaii.

Porto Rico Agricultural Experiment Station. D. W. MAY, Mayaguez, *Agronomist in Charge*.

Investigations of this station relate especially to the growing of coffee, field crops, and horticultural plants, the development of animal husbandry and dairying, soils, vegetable pathology, and entomology. Cooperative and demonstration work is also in progress.

Staff.—L. G. Willis, chemist; J. O. Carrero, assistant chemist; T. B. McClelland, horticulturist; J. A. Saldana, assistant in horticulture; T. Bregger, plant breeder; W. P. Snyder, assistant in plant breeding; W. V. Tower, entomologist; H. C. Henricksen, specialist in farm management.

Guam Agricultural Experiment Station. C. W. EDWARDS, *Animal Husbandman in Charge*.

The station in Guam is located near Agaña, the principal town. Experiments are being conducted in improved methods of cultivation, introduction, and improvement of tropical agricultural crops, and introduction of improved live stock.

Staff.————, agronomist and horticulturist; Joaquin Guerrero, assistant in horticulture; F. B. Leon Guerrero, assistant in poultry husbandry; ———, assistant in extension work; P. Nelson, assistant.

Virgin Islands Experiment Station. J. B. THOMPSON, St. Croix, *Agronomist in Charge*.

The station is located on St. Croix, the largest island of the group. The experimental work in progress includes plant breeding with cotton and sugar cane, cultural experiments with tropical crops, rotations, green-manure crops, plant diseases and insect pests, soil and chemical studies, and various other activities.

Staff.—J. B. Thompson, agronomist in charge; C. E. Wilson, entomologist.

Office of Extension Work.

C. B. SMITH, *Chief*; T. WEED HARVEY, *Assistant to Chief*; M. M. THAYER, *Executive Assistant*; F. M. McLAUGHLIN, *Financial Records*; L. A. SCHLUP, *Manuscripts*.

Relations with Extension Divisions of Agricultural Colleges in the United States.

Under this head the office cooperates with the extension divisions of the State agricultural colleges in their plans and expenditures for extension work in agriculture and home economics under the Smith-Lever Act. It also acts as an agency for coordinating the extension work of the several bureaus of the department with similar work carried on by the agricultural colleges.

Farmers' Cooperative Demonstration Work.

Under this head extension work on subjects relating to agriculture, home economics, and rural life generally is carried on through practical demonstrations and instruction under the supervision and management of State, district, and county agents working through organizations of farm men and women and boys' and girls' clubs. This work is in cooperation with State colleges of agriculture, county governments and organizations, and others. Demonstrations in farm management form a special line of work. In the cotton territory the work includes the teaching and demonstration of methods of meeting the ravages of the cotton-boll weevil. Information regarding the organization and progress of extension work in foreign countries is collected and disseminated.

Scientific staff.—Division of Projects and Programs: L. H. Goddard, in charge; J. A. Evans, G. E. Farrell, W. A. Lloyd, W. B. Mercier, E. A. Miller, H. E. Savely, Florence E. Ward; W. H. Conway, executive assistant. Division of Subject Matter Workers:

A. B. Graham, in charge; Miriam Birdseye, H. M. Dixon, O. S. Fisher, R. V. Hood, F. P. Lund, O. B. Martin, J. M. Stedman, J. O. Taylor. Division of Extension Methods in Organization: M. C. Wilson, acting in charge; H. W. Barber, C. L. Chambers, Milton Danziger, R. G. Foster, Grace E. Frysinger, H. W. Gilbertson, I. W. Hill, Agnes E. Harris, H. W. Hochbaum, Ivan L. Hobson, Ola Powell, Madge J. Reese, I. O. Schaub, Gertrude L. Warren. Negro Agricultural Extension Work: T. M. Campbell, J. B. Pierce.

Cooperative field extension staff.—State directors of extension, 48; assistant directors, 14. County agent work: 29 State leaders, 59 assistant State leaders, 53 district agents, 2,016 county agricultural agents and assistant agents, 154 Negro agents. Home demonstration work: 45 State leaders, 31 assistant State leaders, 49 district home demonstration agents, 717 county home demonstration agents, 3 city home demonstration agents, 75 colored home demonstration agents. Boys' and girls' club work: 41 State leaders, 72 assistant State leaders, 161 county club agents, 23 community leaders. Farm-management demonstration work: 19 State demonstrators, 4 assistant State demonstrators.

Office of Home Economics.

C. F. LANGWORTHY, *Chief*; MINNA C. DENTON, *Assistant Chief*.

Studies of Food, Dietetics, Clothing, and Household Equipment, Work, and Management.

The Office of Home Economics investigates, both from the scientific and practical standpoint, the nature and uses of agricultural products utilized in the home for food, clothing, and equipment, and the methods of household work and management. The publications reporting work of the Office of Home Economics make available to extension workers, and also to housekeepers, teachers, students, and others the results of such studies and of practical experience gathered in the home and elsewhere. Respiration calorimeter investigations include a study of food and household work with particular reference to energy values and efficiency. Special respiration calorimeter investigations on the factors which affect the successful storage of fruits and other food materials and other subjects included within the work of the department are carried on in cooperation with the different bureaus.

Scientific staff.—Helen W. Atwater, Ilena M. Bailey, H. G. Barott, May Brookshier, Samuel C. Clark, Walter B. Emerson, Caroline L. Hunt, Ruth Johnstin, Laura J. Livshis, Mabel A. Nye, Flora G. Orr, Opal I. Rains, Emma Reh, and Fanny W. Yeatman.

BUREAU OF PUBLIC ROADS.

Chief of Bureau, THOMAS H. MACDONALD; *Chief Engineer*, P. ST. J. WILSON; *Assistant to the Chief*, C. D. CURTIS.

The engineering work of the Department of Agriculture is handled by the Bureau of Public Roads. The work is divided into two main branches: highway engineering and agricultural engineering. The highway engineering branch deals with all highway functions of the department contemplated by the regular appropriations and also with the work of administering the Federal-aid and forest road appropriations.

In the highway engineering branch there are five main divisions, as follows: (1) Division of Federal Aid and Forest Roads; (2) Division of Control; (3) Division of Tests and Research; (4) Division of War Materials; (5) Division of Highway Economics and Transport.

The Division of Federal-Aid and Forest Roads, in addition to handling the details of the administration of the Federal-aid road act, also has charge of the road building and maintenance work and the field experiments provided for in the regular appropriations for the department. This division is headed by the chief engineer and is made up of four subdivisions dealing respectively with design, construction and maintenance, bridges, and equipment. For the purpose of administering the Federal-aid and forest road work the United States is divided into 12 districts, each of which is in charge of a district engineer. The 7 eastern districts report directly to the chief engineer. The 5 western districts report to the deputy chief engineer with headquarters in San Francisco, and he, in turn, is responsible to the chief engineer.

The Division of Control maintains the progress records of Federal-aid work and analyzes them for the guidance of the chief of bureau and chief engineer. This division is also responsible for all accounting and statistical work of the bureau.

The Division of Tests and Research is responsible for the routine testing of road materials and conducts research along lines of highway construction under both the regular appropriations and the Federal-aid road act.

The Division of War Materials is charged with the distribution of surplus war materials transferred by the War Department for use on road construction by the Department of Agriculture and the State highway departments.

The Division of Highway Economics and Transport deals with highway economics work under the regular appropriations and the Federal-aid road act.

The agricultural engineering branch is divided into three divisions dealing respectively with the following activities comprised under the regular appropriations for the department: Drainage investigations, irrigation investigations, rural engineering investigations.

In addition to these main branches, and serving both of them, there are a legal section, which handles the details of contracts in connection with the Federal-aid road work; an editorial section, which has charge of publications, the library and motion pictures, photography and exhibits; and sections in charge of personnel and mailing and filing.

The Bureau of Public Roads, under the direction of the Secretary of Agriculture, administers the operation of the Federal-aid road act, under which aid is granted to the several States in the construction of rural post roads; has charge of the survey, construction, and maintenance of roads in and adjacent to the national forests for which appropriation is made in section 8 of the Federal-aid road act; cooperates with the Forest Service on road work conducted with the proceeds of the 10 per cent appropriation from forest receipts; investigates methods of road construction and maintenance; constructs experimental roads to demonstrate and test methods and materials of construction; details engineers to instruct local officials in road building by supervising object-lesson roads; gives advice to State and county authorities on all matters relating to road construction, maintenance, and management; investigates systems of road management; investigates the location, properties, and economic values of road materials; studies traffic regulations; investigates the effects of traffic on road surfaces and subgrades; compiles statistics relating to public roads; conducts educational work through lectures, the distribution of lantern slides, and the exhibition of models; investigates and reports upon the drainage of farms and of swamps and other wet lands otherwise unavailable for agriculture; conducts field experiments and investigations in regard to construction and equipment in farm drainage systems; gives advice and assistance in farm drainage; investigates and reports concerning the best methods of utilizing water in farm irrigation and concerning the development of the most efficient equipment for farm irrigation; studies the duty, apportionment, and measurement of irrigation water, and the customs, laws and regulations affecting irrigation; gives advice and assistance in farm irrigation; investigates domestic water supply and drainage disposal of the farm; investigates methods of lighting, heating, and ventilating farm homes; investigates, gives advice, and prepares plans for the construction of farm homes and structures; gives advice in regard to farm machinery and other rural engineering problems.

Highway Engineering.

Division of Federal-Aid and Forest Roads.

P. ST. J. WILSON, *Chief Engineer*; L. I. HEWES, *Deputy Chief Engineer*; E. W. JAMES, *Chief, Division of Design*; H. K. BISHOP, *Chief, Division of Construction*; O. L. GROVER, *Bridge Engineer*; E. B. McCORMICK, *Chief, Division of Equipment*; J. S. BRIGHT, *Construction Engineer*.

Post-Road Construction and Forest-Road Construction and Maintenance.

This work covers the construction of rural post roads in cooperation with the State highway departments, and the survey, construction, and maintenance of national forest roads in cooperation with the Forest Service and State and local authorities.

For convenience in handling the work 12 districts have been established, as follows: No. 1, Oregon, Washington, Montana, and Alaska; No. 2, California and Nevada; No. 3, Colorado and Wyoming; No. 4, Minnesota, Wisconsin, North Dakota, and South Dakota; No. 5, Nebraska, Kansas, Missouri, and Iowa; No. 6, Texas, Oklahoma, Arkansas, and Louisiana; No. 7, Illinois, Indiana, Kentucky, and Michigan; No. 8, Alabama, Georgia, Florida, Mississippi, Tennessee, and South Carolina; No. 9, Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, and Vermont; No. 10, Delaware, Maryland, Ohio, Pennsylvania, North Carolina, Virginia, and West Virginia; No. 12, Idaho and Utah; No. 13, Arizona and New Mexico.

District engineers.—District No. 1, C. H. Purcell; C. W. Cheatham, assistant district engineer; District No. 2, C. H. Sweetser; District No. 3, J. W. Johnson; District No. 4, E. O. Hathaway; District No. 5, J. C. Wonders; District No. 6, A. R. Losh, acting; District No. 7, J. T. Voshell; District No. 8, A. E. Loder; District No. 9, G. H. Miller; District No. 10, V. M. Peirce; District No. 12, B. J. Finch; District No. 13, E. S. Wheeler.

Road Building and Maintenance Investigations.

These investigations cover the building of object-lesson roads and object-lesson bridges; the development of county road systems; making inspections and giving expert advice on road and bridge construction; the making of road surveys; systems of road maintenance; the maintenance of object-lesson, experimental, and post roads; conducting object lessons in road maintenance; the construction of roads within the national forests, in cooperation with the Forest Service; the preparation of typical plans for highway bridges and culverts; and experiments with bridge materials.

Field Experiments.

This work comprises the construction of experimental roads with or without the co-operation of local administrative units for the purpose of demonstrating the best methods of constructing new types of roads and of studying the effect upon these roads of traffic under known conditions; investigations concerning various road materials and preparations.

Highway engineering staff.—M. J. Adams, C. Andersen, W. J. Anderson, J. W. Ball, L. G. Bayley, R. M. Bennett, Wm. Brewster, W. F. Brooks, C. L. Brown, E. C. Brown, L. R. Brown, A. G. Bruce, H. E. Burke, G. L. Campen, J. C. Carpenter, L. J. Caufield, L. J. Charles, L. F. Clark, R. S. Corlew, M. J. Cramer, W. A. Crossland, R. L. Devereaux, R. F. Eastham, J. A. Elliott, P. H. Everett, R. B. Everts, H. D. Fallon, F. H. Flint, W. N. Frickstad, Geo. Fuller, Mack Galbreath, R. H. Harrison, D. E. Henry, F. M. Johnson, T. M. Keene, E. E. Kidder, F. A. Kittredge, C. C. Learned, H. H. Lotter, W. H. Lynch, H. G. McKelvey, C. L. McKesson, M. L. Mackey, G. T. MacNab, J. T. Marshall, B. W. Matteson, F. W. Mills, jr., J. E. Mincher, J. W. Moore, C. C. Morris, H. J. Morrison, Jack Moskowitz, J. W. Ogier, A. I. Ostrander, A. E. Palen, J. T. Patterson, A. C. Rapelje, C. E. Raynor, W. H. Rhodes, E. F. Ruggles, J. T. Schuyler, W. J. Scofield, S. R. Sharts, C. Shoemaker, R. H. Shoemaker, E. P. Shuman, E. C. Slocumb, W. V. Smiley, W. H. Snyder, C. H. Stillman, J. H. Stone, B. F. Taylor, H. J. Taylor, S. L. Taylor, D. R. Thornton, R. E. Toms, V. E. Towles, H. C. Wells, C. A. Welton, G. C. White, J. A. Whittaker, M. W. Wilbur, M. D. Williams, A. V. Williamson, E. J. Wulff, senior highway engineers; H. R. Angwin, J. R. Chamberlain, J. S. Clay, L. F. Copeland, A. F. Gordon, E. F. Kelley, W. P. Linton, J. V. McNary, G. W. Mayo, C. D. Snead, G. D. Whittle, R. B. Wright, senior highway bridge engineers; E. E. Albee, F. E. Andrews, J. H. Ayres, K. C. Balcomb, G. T. Beattie, B. F. Beezley, F. S. Berry, C. F. Bidgood, R. T. Bloodsworth, W. F. Brock, A. B. Brown, E. L. Brown, R. D. Brown, W. H. Carnrike, F. H. Cotter, S. S. Crenshaw, C. W. Cross, W. H. Curwen, F. Davis, T. M. Davis, A. C. Dunn, E. G. Edwards, J. F. English, H. D. Farmer, J. A. Glominski, G. J. Goehl, F. P. Gowan, W. L. Greenlun, F. S. Hackley, W. F. Hart, B. B. Hauser, A. A. Hawkinson, J. B. Hawley, C. L. Hayward, H. J. Hemstreet, A. L. Hooper, E. M. Hulce, W. M. Jeffrey, W. R. Johns, C. V. Johnson, O. B. Kercher, W. F. King, B. F. Kitt, F. A. Knight, H. R. Leland, A. A. Levison, J. C. Lewin, P. Linford, T. J. Lough, C. T. McGinley, H. J. McKenney, H. P. Martin, J. L. Mathias, R. E. Merrick, L. Messigman, T. R. Mini, R. R. Mitchell, A. F. Morris, M. A. Murray, J. M. Myers, T. F. Nichols, F. A. Nickols, C. T. Nordstrom, S. A. Obenshain, J. H. Obermuller, I. E. Odendahl, J. M. Page, C. E. Perkins, W. G. Peters, T. C. Peterson, J. B. Reher, E. H. Robinson, E. B. Rhine, A. C. Rose, J. G. Rose, L. H. Schwartz, E. T. Scott, A. Seifert, F. P. Sexton, E. A. Shafer, J. D. Shaw, D. K. Shepard, H. C. Simmins, F. W. Smith, H. M. Smith, E. U. Stevenson, H. Q. Thomas, St. C. T. Thomas, H. S. Tolen, H. R. Topping, J. H. Tuttle, E. J. Wakefield, J. A. Walsh, C. R. Whitaker, R. G. Williams, H. B. Wright, J. H. Young, highway engineers; A. L. Luedke, engineer economist; C. D. Geisler, A. L. Gemeny, L. M. Huggins, N. E. Lant, L. F. Martin, C. T. Nitteberg, R. Pearson, C. W. Pierce, C. R. Whyte, highway bridge engineers; A. W. Buford, O. E. Gardner, R. B. McMinn, G. S. Vincent, junior highway bridge engineers; W. M. Austin, W. L. Bowen, T. F. Calhoun, C. F. Capes, P. J. Clark, J. H. Eldridge, C. T. Harrison, W. J. Hoskyn, D. L. MacBeath, C. H. Semper, L. E. Smith, E. Tarry, superintendents of road construction; E. E. Avery, G. D. Ball, P. A. Bean, C. M. Boren, N. Bower, W. L. Bradley, J. H. Diehl, R. L. Downing, W. T. Eddy, E. R. Epperson, D. G. Evans, E. Gilgen, L. A. Hamilton, W. J. Horsley, R. C. Jones, J. A. Lapraik, G. F. Leslie, O. C. Lockhart, B. McAtee, D. Murphy, B. A. Price, L. L. Schremp, J. S. Scofield, C. Short, J. D. Slye, R. P. Smilie, S. A. Wallace, W. R. F. Wallace, J. A. West, chiefs of road survey party; J. E. Anderson, P. C. Beebe, F. R. Bonnickson, M. C. Bowman, C. S. Bruning, S. J. Caperson, A. C. Clark, S. Cook, C. F. Dixon, A. V. Emery, C. J. Fitchett, R. S. Graves, G. F. Hellesoe, F. C. Hill, R. Hoover, J. E. Jensen, T. A. Jones, W. J. Keller, W. L. Lafferty, D. W. Lamb, J. Lissner, N. F. McCoy, E. J. McCracken, R. A. Mack, D. G. O'Reardon, C. G. Polk, M. H. Potter, H. P. Purington, R. B. Reed, J. A. Skans, R. Thirion, R. I. Thomas, R. D. Walton, M. F. Wildman, transitmen for

road surveys; T. L. Ainsworth, J. Brannan, P. H. Burch, Ellen DeV. Butler, K. B. Campbell, F. R. Carlen, R. W. Cullen, R. W. Darling, T. A. Hafford, I. W. Hall, J. G. Hanford, H. C. Headley, W. F. Heyman, H. H. Kuphal, E. Lubeck, J. W. Macrum, Lou Alta Melton, D. B. Murphy, R. Rogers, L. W. Schlegel, H. F. Tripp, G. H. Waddell, highway and engineer draftsmen; E. F. Bespalow, J. S. Engel, E. F. Gleason, W. R. Hardisty, F. B. Lessman, D. W. Mattson, D. D. Painter, W. T. Perkins, R. B. Smith, H. Solman, L. W. Turoff, A. B. Whedon, junior civil engineers; K. A. MacLachlan, assistant highway economist; L. F. Vaile, assistant engineer in road construction; Otto Engelmann, property assistant; J. Peters, automotive mechanic; I. E. Hamilton, mechanic; C. S. Haynes, architectural draftsman and designer.

Division of Control.

T. W. ALLEN, *Chief of Division.*

This division has supervision and control over fiscal accounts, expenditures, purchasing, property (other than road building equipment received from the War Department), and the records of Federal aid progress.

Staff of the Division of Control.—J. L. Harrison, B. F. Heidel, senior highway engineers; G. G. Clark, engineer economist; A. P. Anderson, highway engineer; W. Moore, chief accountant; L. D. Asmus, transitman for road surveys; T. E. Kesting, Carl G. Englund, Arthur F. Haelig, Ralph E. Tribou, junior civil engineers; N. W. Dougherty (part time), special assistant; R. D. Lyons, assistant highway economist.

Division of Tests and Research.

A. T. GOLDBECK, *Chief of Division.*

These investigations cover the routine chemical testing and inspecting of dust preventives and road binders and materials allied to road construction; microscopic examination and classification of road-building rocks; research on properties of dust preventives and road binders; tests of the effect of vehicular wear and impact on road surfaces; standardization of methods of testing bituminous road materials; experimental bituminous road construction and maintenance; physical testing of road-building materials; nonbituminous road-material investigations; standardization of tests on nonbituminous road materials; and instrument making and repair.

Staff of the Division of Tests and Research.—T. R. Agg (part time), special engineer; W. L. Spoon (part time), senior highway engineer; F. H. Rood (temporary), research engineer; W. K. Hatt and C. J. Tilden (part time), special agents; A. N. Johnson, special engineer; E. B. Smith and F. H. Jackson, jr., senior assistant testing engineers; C. A. Hogentogler, J. T. Pauls, and F. D. Hurwitz, highway engineers; L. L. Beebe and I. B. Mullis, assistant testing engineers; G. E. Ladd, economic geologist; B. A. Ander-ton, L. G. Carmick, and H. M. Milburn, chemists; F. Tucker, associate chemist; R. H. Lewis, assistant chemist; R. I. Rudolph, junior chemist; E. C. E. Lord, petrographer; G. W. Davis, engineer economist; L. W. Teller and C. E. Proudley, junior assistant testing engineers; E. F. Strickler, chief of road survey party; F. H. Schloer, instrument maker; W. F. Buchner, mechanical draftsman; R. Alvis, A. J. Donargo, R. M. Trimble, and A. Fleischer, junior civil engineers; E. F. Webster and V. E. Bredt (part time), collaborators.

Division of War Materials.

H. L. BOWLBY, *Chief of Division.*

This division has charge of the distribution to the States and Department of Agriculture of surplus war material received from the War Department for use on road work.

Staff of the Division of War Materials.—J. A. Sourwine, senior highway engineer; G. E. Ferguson, J. M. Marshall, J. A. Ryder, highway engineers; J. B. McCord, special agent.

Division of Highway Economics and Transport.

This work embraces engineering economics relating to highways; legislative investigations and investigations in highway administration; the collection and compilation of statistical data; and advisory work with reference to economics, legislation, and highway administration and management.

Staff of the Division of Highway Economics and Transport.—J. G. McKay, highway economist (part time); O. M. Elvehjem (part time), R. W. Davis, assistant highway economists.

Agricultural Engineering.

S. H. MCCRORY, *Chief*; SAMUEL FORTIER, *Associate Chief*.

This branch is divided into three subdivisions, dealing, respectively, with (1) drainage investigations, (2) irrigation investigations, and (3) rural-engineering investigations.

Drainage Investigations.

These investigations embrace the following subjects: Methods of removing surplus water from lands having agricultural value; protection of lands from periodical overflow of streams; reclamation of tidal lands; control and conservation of rainfall on hillside lands; construction and maintenance of farm-drainage works; equipment for use in constructing and maintaining farm-drainage works; and costs and methods of organizing and financing community drainage projects.

Irrigation Investigations.

These investigations include the following subjects: Utilization of water in farm irrigation; pumping for irrigation; irrigation appliances and equipment; flow of water in ditches, pipes, and other conduits; measurement of water; customs, regulations, and laws relating to irrigation; drainage of irrigated lands; expert advice and assistance.

Rural Engineering Investigations.

These investigations involve the study of the domestic water supply and disposal of sewage on the farm; recommendations and plans for farm buildings and structures involved in rural improvement, with reference to convenience and economy; research, cooperative, and experimental demonstrations of rural problems involving an expert knowledge of mechanical principles.

Drainage staff.—H. H. Barrows, L. A. Jones, R. D. Marsden, G. R. Boyd, R. A. Hart, D. G. Miller, C. E. Ramser, F. F. Shafer, P. T. Simons, D. L. Yarnell, senior drainage engineers; F. O. Bartel, B. S. Clayton, G. A. Hart, L. T. Jessup, A. O. Kay, F. V. King, G. L. Smith, F. E. Staebner, drainage engineers; J. A. Wise, junior drainage engineer; F. Boynton, W. D. Nichols, draftsmen; H. J. Bartz, junior civil engineer; H. B. Bliss (part time), G. A. Mitchell (part time), agents; A. W. Stone and S. T. Vaughn (temporary), picric-acid inspectors.

Irrigation staff.—R. P. Teele, senior irrigation economist; Frank Adams, irrigation manager; F. L. Bixby, A. L. Fellows, W. W. McLaughlin, A. T. Mitchelson, R. B. Parshall, F. C. Scobey, C. E. Tait, M. B. Williams (part time), senior irrigation engineers; S. H. Beckett, H. F. Blaney, D. W. A. Bloodgood, Guy Ervin, W. B. Gregory (part time), R. G. Hemphill, J. C. Marr, Carl Rohwer, L. M. Winsor, irrigation engineers; T. H. McCarthy (part time), junior irrigation engineer; P. A. Ewing, W. A. Hutchins, assistants in irrigation economics; E. J. Hoff, mechanician.

Rural engineering staff.—M. C. Betts, architect; E. Johnson, T. A. H. Miller, H. R. Tolley, agricultural engineers; A. M. Daniels, mechanical engineer; M. A. R. Kelley, barn architect; G. M. Warren, hydraulic engineer; W. R. Humphries, assistant in rural engineering; N. Buckingham, G. L. Edick, rural engineering draftsmen; Lillian Church, assistant in agricultural engineering.

Legal Section.

L. E. BOYKIN, *Assistant in Road Management in Charge*.

This section has charge of the details of contracts in connection with Federal aid road work and other activities of the bureau.

Staff.—W. J. O'Leary, assistant in road management.

Editorial Section.

H. S. FAIRBANK, *Senior Highway Engineer in Charge*.

This section has charge of the publications of the bureau, including contributions to the Department and Farmers' bulletin series. It also includes the library and the management of photographic, cinematographic, and exhibit work.

Staff.—R. E. Royall, highway engineer; O. L. Evans, research librarian; H. W. Hendley, model maker; J. K. Hillers, jr., photographer.

Personnel Section.

A. F. JOHNSTON, *in charge*.

Mailing and Filing Section.

H. E. GRAFF *in charge*.

BUREAU OF AGRICULTURAL ECONOMICS.

Chief, H. C. TAYLOR; *Associate Chief*, LEON M. ESTABROOK; *Assistant Chief*, LLOYD S. TENNY; WILLIAM A. SCHOENFELD, *Agricultural Economist*; *Administrative Assistant*, F. J. HUGHES; *Assistant in Regulatory Work*, HARRISON P. FITTS.

In the agricultural appropriation act for the fiscal year 1923, provision was made for the consolidation of the Bureau of Markets and Crop Estimates with the Office of Farm Management and Farm Economics on July 1, 1922. This bureau conducts investigations in the cost of production and marketing, farm organization, farm financial relations, farm labor, agricultural history and geography, land economics, and the problems of rural life. The bureau also acquires and disseminates information regarding the marketing and distributing of farm and nonmanufactured food products, and collects, compiles, summarizes, interprets, and makes public statistical data relating to agricultural production. Studies are made of marketing methods, conditions, and costs, and with regard to the standardization, transportation, handling, and storage of agricultural products. Reports are issued by the bureau which contain information on the supply, commercial movement, disposition, and market prices of fruits and vegetables, live stock and meats, dairy and poultry products, and hay, feed, and seed. Information is secured and published also with regard to the supply of and demand for certain agricultural products in foreign countries. A market inspection service on fruits and vegetables is now available at approximately 225 markets, and on butter at five of the principal markets of the country. Regulatory work is performed in connection with the enforcement of the United States cotton futures act, the United States grain standards act, the standard container act, and in connection with the administration of the United States warehouse act. The chief of the bureau acts as liquidating officer of the wool section of the War Industries Board. The Center Market in the city of Washington is also operated by this bureau.

Administrative staff.—Branch of Operation, R. V. Bailey, C. L. Snow; personnel, A. F. Krueger; estimates, allotments, and reports, Emily E. Clark; audits and accounts, P. H. Quinn; property and supplies, J. F. Pevare; technological laboratory, J. F. Barghausen; reviewing, Miriam C. Vance; photographic laboratory, Horace Wilcox.

Division of Information.

J. CLYDE MARQUIS, *Agricultural Economist*.

This section directs and supervises the issuance by the Bureau of Agricultural Economics of the material published in "Weather, Crops, and Markets" and all other information, whether published in bulletin or other printed or mimeographed form, released by telegraph, or made public by means of exhibits, motion pictures, lantern slides, photographs, or lectures.

Scientific staff.—Caroline B. Sherman, Miller Hamilton, and Frank F. George, jr., assistants in market information; Katharine G. Rice, Emily L. Day, Catherine M. Viehmann, and Anne P. Rhodes, junior assistants in market information; B. L. Perkins, assistant in market exhibits; Albert B. Genung, junior economist.

Radio News Service.—W. A. WHEELER, *in charge*.

The radio news service of the department gives special attention to the dissemination of weather, crop, and market news by radio. In the development of this work attention is given to studying the possibilities of this method of communication and to formulating service programs in cooperation with States and other public and private agencies.

Scientific staff.—J. C. Gilbert, specialist in market extension, and M. H. Hess, assistant in radio news service.

Economic Library.

With the formation of the Bureau of Agricultural Economics, the libraries of the Bureau of Crop Estimates, the Bureau of Markets, and the Office of Farm Management and Farm Economics were consolidated to form the Economic Library. This library comprises the extensive statistical material collected by the department since 1839, when the first appropriation for procuring agricultural statistics was made to the Patent Office; the full, though necessarily fragmentary, material on marketing, as little was published prior to 1900; and the historical and other material collected by the Office of Farm Management as well as the general economic collections of the department. This library not only serves the Bureau of Agricultural Economics, but it forms the economic unit of the main library of the Department of Agriculture.

Scientific staff.—Librarian, Mary G. Lacy; Assistant Librarian, Anna Dewees.

Farm Management and Cost of Production.G. W. FORSTER, *Agricultural Economist*.**Farm Organization.**—H. R. TOLLEY, *Agricultural Economist*.

Research in this field is directed toward determining and making available facts which can be utilized in successfully organizing and conducting the business of individual farms. Data are secured, analyzed, and interpreted which serve to assist the farmer in determining for any given year such questions as (1) the proportions of different crops and kinds of live stock which should be produced; (2) how much power and labor should be employed; (3) how much capital will be needed; (4) the extent to which different methods and practices will increase profits. Through these studies a large volume of statistical data is being compiled which will serve as a guide to production and to the successful organization of individual farms for adequate and efficient production.

Scientific staff.—W. C. Funk, H. W. Hawthorne, C. L. Goodrich, assistant farm economists; Bruce McKinley, junior farm economist; W. J. Spillman, consulting specialist; E. A. Boeger, junior agricultural economist; H. A. Miller, assistant farm economist; L. A. Reynoldson, junior farm economist; S. W. Mendum, junior economist.

Cost of Production.—R. H. WILCOX, *Farm Economist*.

Studies covering cost of producing agricultural products are carried on by this section. Through these studies are secured fundamental cost information upon the basic factors of production, their relative importance, and their contribution to the finished product. Information is gathered which may be used as the basis for selection of crop and live-stock enterprises on the farm. Studies under way cover the cost of producing the staple crops, live stock, and live-stock products.

Scientific staff.—M. R. Cooper and R. S. Washburn, assistant farm economists; R. D. Jennings and G. S. Klemmedson, junior farm economists; Oscar Steanson and Albert P. Brodell, junior economists; C. R. Swinson, research assistant.

Farm Records and Accounts.—O. A. JUVE, *Junior Farm Economist*.

In this section attention is given to bookkeeping and accounting principles in their application to efficient production. Attention is also given to devising and putting into use farm bookkeeping and accounting forms adaptable to the various types of agricultural production. Investigations are being conducted for the purpose of determining and introducing on the farm better business methods.

Land Economics and Land Utilization.L. C. GRAY, *Agricultural Economist*.

The Division of Land Economics is concerned with land resources and utilization; land ownership and tenancy; land settlement and colonization; land values and valuation; and farm labor problems. Land in the United States is studied from the standpoint of economic classification and its best utilization. Methods of renting land, forms of land tenure, and the methods and rate of acquisition and disposition of farm land are subjects of study and investigation, as are methods of settlement and colonization, land agencies and land reclamation problems, land values, rent, and land taxation.

Scientific staff.—O. E. Baker, agricultural economist; C. L. Stewart and Ray P. Teele, associate agricultural economists; J. S. Cotton, agriculturist; Clyde R. Chambers, C. O. Brannen, E. O. Wooten, R. R. Spafford, J. T. Sanders, George C. Haas, assistant agricultural economists; Bertha Henderson, Howard A. Turner, junior agricultural economists; Bernard O. Weitz, research assistant.

Agricultural Finance.V. N. VALGREN, *Associate Agricultural Economist*.

The work covers rural credit, insurance, taxation, and related subjects. Under rural credit studies are made of problems connected with farm credit from banks, insurance companies, mortgage companies, live-stock loan companies, merchants, cooperative credit associations, and other sources. In the field of insurance studies are made of needs and facilities for protection against loss from fire, windstorm, disease or accident among live stock, crop damage, etc. Special studies are made of problems in taxation as affecting the farmer and some attention is given to the organization and financing of rural public utilities.

Scientific staff.—E. E. Englebert and H. S. Beardsley, junior agricultural economists.

Farm Population and Rural Life.C. J. GALPIN, *Economist.*

This division is engaged in making scientific studies of the farm population of the United States. Studies are made of the number of farm population, classified according to significant age groups and otherwise, the movement from region to region, and from country to city; the number of people living in the status of owners, of tenants, and of laborers, as well as the rate of progress from one status to another. The division studies the cost of living of the farmer and the various standards of living of farm communities engaged in various types of agriculture; the development of country institutions, the organizations of farm people; the functions of villages and agricultural towns in their relation to farm population. The economics of population, so far as agriculture is concerned, is the objective of the division.

Scientific staff.—Emily F. Hoag, assistant economist; W. C. Nason and Veda B. Larson, junior economists.

Division of Live Stock, Meats, and Wool.C. V. WHALIN, *Investigator in Marketing Live Stock and Meats.*

Investigations in Marketing Live Stock, Meats, and Wool. C. A. BURMEISTER, *Assistant in Market Information*, and G. T. WILLINGMYRE, *Specialist in Marketing Wool.*

A systematic study of existing live-stock markets, and methods and practices of marketing is in progress, including transportation and stockyard facilities, and the various agencies, including cooperative associations, for the distribution of live stock, meats, and animal products. Market classes and grades for live stock and meats have been formulated, and demonstrations are made to illustrate these classes and grades. Investigations are made concerning the marketing of hides and skins and of purebred live stock. The marketing of wool is studied, and reports dealing with the supply and consumption of wool are issued. Tentative wool standards have been prepared and are being distributed to determine their practicability.

Scientific staff.—L. B. Burk and C. L. Harlan, investigators in marketing live stock and meats; D. W. Willingmyre, investigator in marketing wool; Miss E. M. Jordan, assistant in marketing live stock and meats; W. E. Doble and W. A. Mueller, assistants in marketing wool; L. C. Reynolds, scientific assistant; and H. W. Mumford, consulting specialist.

Market Reports on Live Stock and Meats. W. C. DAVIS, *Assistant in Marketing Live Stock and Meats*; E. W. BAKER, *Investigator in Marketing Live Stock and Meats*; J. A. BURGESS and C. E. GIBBONS, *Assistants in Marketing Live Stock and Meats.*

Reports are issued as follows: (1) Daily market reports on meat trade conditions which show prices, supply, demand, and trend of the market for beef, veal, pork, pork products, and lamb and mutton in Boston, Chicago, New York, and Philadelphia; (2) daily reports on live stock at Chicago, East St. Louis, Kansas City, Omaha, and St. Paul, showing prices, receipts, demand, and trend of the market for cattle, calves, hogs, and sheep; (3) weekly summaries of live-stock market conditions and prices at the above-named centralized live-stock markets; (4) weekly summaries of meat trade conditions and prices which are issued every Saturday morning; and (5) various news items and trade reviews containing general information relating to trade conditions in the live-stock and dressed-meat markets, and weekly and monthly statistical reports of live-stock and dressed-meat supplies, movements, and prices published in the department publication "Weather, Crops, and Markets."

Scientific staff.—Sterling Emens, investigator in marketing live stock and meats; Charles Bruce, J. S. Campbell, W. C. Davis, J. J. Doheny, H. W. French, M. Y. Griffin, C. M. Harris, E. K. Hess, Elmer Lende, I. W. Pew, O. J. Thompson, and D. J. Slater, assistants in marketing live stock and meats; C. A. Burmeister, N. R. Crow, H. B. Latham, and L. B. Mann, assistants in market information; W. D. Gardner, junior assistant in market information; W. E. Schneider, scientific assistant in marketing live stock and animal products; G. P. Williams and Lutz May, live stock market reporters.

Division of Dairy and Poultry Products.ROY C. POTTS, *Specialist in Marketing Dairy Products.*

Marketing Dairy and Poultry Products. ROY C. POTTS, *Specialist in Marketing Dairy Products.*

In this work field surveys and investigations are made of the marketing of dairy and poultry products and dairy substitutes, including methods and costs of their preparation

for market, market grades and classification, market quotations and quotation systems, selling agreements, merchandising, advertising, and marketing facilities and methods, market supplies, requirements and conditions, producers' problems and related subjects, in order to suggest measures by which market conditions and marketing methods may be improved and the costs of marketing dairy and poultry products reduced.

Scientific staff.—Leon M. Davis, Delos L. James, John M. Borders, C. W. Fryhofer, and John B. McCready, assistants in marketing dairy products; Robert R. Slocum, assistant in poultry marketing.

Market News Service on Dairy and Poultry Products. LEON M. DAVIS, *Assistant in Marketing Dairy Products.*

The market news service on dairy and poultry products includes the collection and publication of data regarding the amount of manufactured milk products produced in the United States, the market receipts, storage, stocks and movement, market supplies of butter, cheese, eggs, and dressed poultry, prices of fluid milk, butter, cheese, condensed and evaporated milk, and other information in regard to market conditions which may be of value to producers, distributors, and consumers in intelligently directing their sales and purchases of these products.

Scientific staff.—John B. McCready, Leon E. Gaylord, Nick Fennema, Frank H. McCampbell, Raymond L. Feddersen, Ralph E. Curtis, Clarence E. Pier, and Norman A. Dakin, assistants in marketing dairy products.

Butter Inspection Service. C. W. FRYHOFER, *Supervising Inspector of Dairy Products.*

Butter inspections are made at Boston, Chicago, New York, Philadelphia, and San Francisco under the authority contained in the appropriation act, which enables the Secretary of Agriculture to investigate and certify to shippers and other interested parties the quality and condition of fruits, vegetables, poultry, butter, hay, and other perishable farm products when received at important central markets.

Scientific staff.—L. M. Davis, R. L. Feddersen, N. Fennema, N. A. Dakin, L. E. Gaylord, F. M. McCampbell, and Lars Haslerud.

Division of Fruits and Vegetables.

WELLS A. SHERMAN, *Specialist in Marketing Fruits and Vegetables.*

Marketing Fruits and Vegetables. ADMER D. MILLER, *Investigator in Marketing Fruits and Vegetables*, and H. W. SAMSON, *Specialist in Standardization.*

To study the processes involved in packing and preparing fruits and vegetables for market with a view to encouraging the best commercial methods, and for the purpose of developing grades and standards for fruits and vegetables and the containers in which they are marketed; to study the commercial and economic aspects of the construction, arrangement, equipment, and management of fruit and vegetable packing houses; to promote the adoption and use of the grades, standards, methods of sizing, packing, and preparing for the market which may be recommended as a result of these investigations; and to obtain comprehensive and detailed information concerning the origin, movement, distribution, and consumption of these crops and the various agencies by and through which they are distributed and sold.

Scientific staff.—Robert Bier, Geo. B. Fiske, C. W. Hauck, and E. E. Conklin, investigators in marketing fruits and vegetables; Paul Froelich, assistant in market surveys; F. W. Read, specialist in standardization, Charles D. Bohannon, assistant economist in marketing, A. E. Cance, consulting specialist.

Market News Service on Fruits and Vegetables and Peanuts. EDWIN W. STILLWELL, *Specialist in Market News.*

A telegraphic market news service covering the commercial movement and prevailing market prices of the principal fruit and vegetable crops is given. Branch offices have been established in several of the metropolitan markets, and these, in connection with temporary offices located in producing territory during crop movement, constitute centers for the distribution of all available information. The information which is made public includes reports from the markets where branch offices are located covering receipts, market conditions, and prevailing wholesale prices; telegraphic advices from railroad officials in all parts of the country, giving shipments of the commodities which are being reported; and f. o. b. information furnished by field men in shipping areas. During the major portion of the year daily bulletins are issued from the permanent city offices and from the various temporary offices in commercial producing territory. Market reports on peanuts also are issued.

Scientific staff.—B. C. Boree, H. J. Clay, W. E. Harrison, R. M. Peterson, investigators in marketing fruits and vegetables; W. H. Hall, H. A. Harris, Vane G. Gibson, George E. Prince, and Wm. H. Stanton, investigators in market news; E. R. Biddle,

W. E. Kingsbury, R. S. Lumbard, L. H. Martin, Clark E. Schultz, R. H. Shoemaker, Lucy Watt, and J. William Park, assistants in market surveys; V. D. Callanan, assistant in marketing fruits and vegetables; John D. Snow, Colonel L. Brown, and Olnton D. Miller, scientific assistants in marketing; James K. Boyd and Willard H. Mosier, agents in marketing; S. H. Stevens, market reporter; Milo M. Littleton, market station assistant; F. M. Patton, assistant in transportation; Joseph D. Evers, Harry S. Stiles, and Ralph H. Lamb, junior marketing specialists.

Market Inspection of Fruits and Vegetables. F. G. ROBB, *Specialist in Food Products Inspection.*

Inspectors are maintained at the principal markets to investigate and certify to shippers and other interested parties the quality and condition of fruits and vegetables upon their arrival at these markets. The object of this service is to establish an unbiased basis for the adjustment of differences among growers, shippers, and wholesalers and transportation companies, and to conserve the supply of the products affected by facilitating their movement and sale.

Scientific staff.—R. C. Butner, supervising inspector; Fred J. Baehler and W. C. Hackleman, assistant supervising inspectors; G. K. K. Link and Dean H. Rose, pathologists; Glen B. Ramsey, assistant pathologist, B. E. Yaden, T. C. Curry, S. F. Shreve, W. E. Harrison, G. W. Payne, Walter Kingsbury, W. F. Plummer, Walter K. Makemson, Herbert Graff, S. N. Green, E. J. Maynard, R. C. Rose, B. H. Rowell, J. B. Wright, R. C. Bish, Paul W. Barnes, G. C. Bayley, M. C. Gregory, J. F. Whitby, W. H. Steinbauer, H. T. Longino, O. G. Strauss, L. G. Schultz, R. S. Lumbard, C. L. Brown, H. H. Warner, J. W. Raplee, R. A. Smith, H. A. Arenz, M. A. Russell, W. G. Thompson, F. E. Kast, J. J. Sullivan, F. Wolfarth, W. V. Stephens, H. H. Henderson, V. V. Westgate, Herman Beckenstrater, W. C. Hangstafer, F. E. Parsons, G. R. Warren, T. L. Kelly, W. C. Lynn, J. J. Gardner, M. L. Benn, M. L. Henry, C. D. Shirley, J. A. Marks, B. S. Jones, C. J. Hansen, L. D. Mills, W. E. Lewis, O. N. Harsha, L. J. Weishaar, S. V. Christensen, Alex. H. Polster, Hugh C. Miller, Arthur S. Mason, and Paul A. Cauble, inspectors.

Enforcement of the Standard Container Act. H. W. SAMSON, *Specialist in Standardization.*

The object of this work as stated by the act itself is "to fix standards for climax baskets for grapes and other fruits and vegetables and to fix standards for baskets and other containers for small fruits, berries, and vegetables, and for other purposes."

Scientific staff.—H. A. Spilman, assistant in package standardization.

Division of Cotton Marketing.

WILLIAM R. MEADOWS, *Cotton Technologist.*

Administration of the United States Cotton Futures Act. WILLIAM R. MEADOWS, *Cotton Technologist.*

To supervise and direct work of enforcing the United States cotton futures act, and the rules and regulations of the Secretary of Agriculture thereunder.

Future and Spot Market Investigations and Cotton Price Quotations under the United States Cotton Futures Act. A. M. AGELASTO, *Specialist in Cotton Classing.*

To investigate future markets for cotton to ascertain how accurately their future quotations reflect spot values, and to secure general information as to conditions within the future exchanges; to investigate spot markets to determine their fitness for designation as bona fide spot markets; to secure daily reliable quotations for cotton from each designated spot market; to inspect the designated bona fide markets from time to time; to secure from primary and terminal spot markets accurate quotations and general publication of the prices of spot cotton of the various grades, including grades untenderable on future contracts (a) in order that cotton of grades other than middling delivered on future contracts made subject to section 5 of the United States cotton futures act may be settled for at the proper commercial differences in value, so that the prices of such contracts may reflect as nearly as practicable the actual values of spot cotton; and (b) in order that producers, merchants, and others interested in spot cotton may have accurate information as to the prices of such cotton, and particularly grades untenderable on such future contracts.

Scientific staff.—Bertram R. Oastler, specialist in cotton classing; Thomas W. Tannor, Arthur W. Palmer, and Charles F. Mitchell, specialists in cotton marketing; B. I. Busby, jr., and Newton T. Bringhurst, assistants in cotton classing; and Fred E. Nelson, assistant in cotton business methods.

Classification of Cotton under the United States Cotton Futures Act. FRED W. KNIGHT, *Specialist in Cotton Classing.*

To supervise the inspection and sampling of and to classify cotton for the purposes of tender and delivery thereof on future contracts made on exchanges subject to section 5 of the United States cotton futures act as amended by the wheat price guaranty act, approved March 4, 1919.

Scientific staff.—Board of cotton examiners, New York: Wingate P. Barbot, specialist in cotton classing, chairman; William I. Holt and Fred S. Webster, specialists in cotton classing; R. P. Kohlheim, supervisor of cotton inspection; and Sidney Knoller, assistant in cotton grading. Board of cotton examiners, New Orleans: A. C. Poulton, specialist in cotton classing, chairman; J. J. Haggerty, Wm. E. Dent, and D. C. Griffith, specialists in cotton classing; and Newton T. Bringham, supervisor of cotton inspection.

Preparation and Distribution of Official Cotton Standards under the United States Cotton Futures Act. H. C. SLADE, *Specialist in Cotton Classing.*

To prepare and distribute practical forms of the official cotton standards of the United States promulgated by the Secretary of Agriculture under section 9 of the United States cotton futures act, to inspect copies of the standards, condemn them when necessary, and replace them upon request.

Scientific staff.—R. L. Kause, A. M. Agelasto, Ernest G. Parker, and Harvey C. Ryan, specialists in cotton classing; Joseph M. Byrnes and Edward C. Seifert, specialists in cotton marketing; G. P. Taylor, S. W. Holman, L. T. Rhea, and W. S. Lanier, assistants in cotton classing.

Investigation and Demonstration of Cotton Standards. GEORGE BUTTERWORTH, *Specialist in Cotton Classing*, and GUY S. MELOY, *Investigator in Cotton Marketing.*

Under this head are made investigations of standards for the different grades, qualities, and conditions of cotton. Studies are made relative to the length of staple of cotton, cotton of perished or immature staple, and gin-cut cotton, reginned cotton, and cotton linters. When practicable, grading experts demonstrate the use of the official standards to communities of cotton growers in order to secure more uniform grading in connection with spot-cotton transactions and to promote the use of the official cotton standards of the United States.

Cotton Testing. W. G. BLAIR, *Specialist in Cotton Testing.*

Under this project tests are made of the waste, tensile strength, and bleaching and spinning qualities of the different grades, classes, and varieties of cotton in order to determine their commercial and spinning values.

Scientific staff.—H. B. Richardson, C. E. Folk, and Edward S. Cummings, assistants in cotton testing.

Cotton Marketing Demonstrations. GUY S. MELOY, *Investigator in Cotton Marketing.*

To demonstrate to growers the advantage to be gained by (a) classing cotton before sale and possessing accurate knowledge as to the current market prices for cotton of various grades and lengths of staple; (b) marketing on a basis of true value and not on a basis of averages; (c) organizing on a community basis for growing cotton of a single superior variety from pure seed and for marketing the cotton grown in such communities in commercial lots even running as to grade and staple; (d) using warehouses for protecting cotton and as a business adjunct to orderly marketing.

Scientific staff.—John B. Beers, specialist in cotton classing; P. H. Hart, specialist in cotton marketing; and Edgar A. Hodson and Wiley P. Gordon, agents in cotton marketing.

Cotton Handling Investigations. R. L. NIXON, *Specialist in Warehousing.*

To acquire and disseminate useful information relating to (a) the amount and cause of so-called "country damage" in cotton, and the best methods of avoiding such damage; (b) the best methods of compressing cotton; (c) the proper covering of cotton so as to protect bales; (d) the elimination of unnecessary tare; and (e) other questions relating to the handling of cotton.

Grain Division.

Administration of the United States Grain Standards Act. H. J. BESLEY, *Grain Supervisor*, assisted by R. T. MILES, *Grain Supervisor.*

This project supervises and directs the investigational and regulatory activities involved in the enforcement of the United States grain standards act, and the rules and regulations of the Secretary of Agriculture thereunder.

Scientific staff.—E. J. Murphy, assistant in grain supervision; J. Q. Adams, Harold Anderson, C. B. Barron, G. F. Binderim, H. L. Binkley, P. J. Bollman, C. L. Cannon, W. P. Carroll, J. T. Cavanagh, W. B. Combs, F. A. Cummings, J. C. Dey, J. E. Elstner, H. P. English, S. P. Fears, C. G. Franks, J. H. Frazier, Lee Gallaher, H. F. Gray, G. A. Hardgrove, E. A. Hill, E. J. Hickey, W. L. Ingles, R. D. Jarboe, M. J. Johnson, Edward Keiser, J. C. Kerr, G. K. Landers, F. L. Loos, W. H. McDonald, W. H. McMurtrey, J. F. MacKenzie, R. C. Mill, R. C. Miller, A. F. Nelson, H. E. Nelson, E. C. Noll, W. A. Pahl, H. F. Prue, H. A. Rhodes, A. G. Roesser, R. R. Saunders, Martin Schuler, W. H. Shea, W. M. Smith, T. A. Sommers, J. P. Stanfield, R. W. Taylor, C. A. Waalen, F. L. Wallace, J. F. Welch, R. B. Woolsey, C. B. Wright, R. C. Wright, grain supervisors; K. B. Seeds, specialist in grain marketing; E. J. Aldred, J. E. Bohn, A. J. Boyum, L. M. Carr, H. O. Carlson, E. R. Coleman, J. J. Dwyer, R. W. Gilbert, M. T. Goedeke, L. W. Grandy, C. W. Griffin, H. S. Heilman, J. R. Holmes, William Knight, J. E. Kraus, William Kurtz, H. W. Long, J. J. Mackesy, A. R. Matters, H. W. Moering, T. J. O'Brien, T. A. Stevens, C. F. Stranding, George Thorp, J. W. Wesson, E. P. Wrafter, C. L. Shiley, C. J. Young, assistant grain supervisors; W. W. Amidon, H. M. Crosswhite, G. A. Dabinett, F. C. Heiss, H. R. Hungerford, G. W. Morrison, E. L. Riley, L. L. Shilling, assistants in Federal grain supervision; J. R. Hogg, junior assistant in market information.

Inspection Efficiency, United States Grain Standards Act. F. G. SMITH, *Grain Supervisor.*

This work includes the supervision of the inspection of grain in order to secure the correct and uniform application of the official grain standards of the United States; examination of grain which has been shipped or delivered for shipment in interstate or foreign commerce when sold, offered or consigned for sale by grade or which has been graded by a licensed inspector, for the purpose of determining whether it conforms to the standard of the grade specified; supervision of all records of grain graded and inspected by licensees under the act, the collection of reports and the compilation for publication of the summary of facts required by section 7 of the act.

Scientific staff.—W. P. Carroll, E. L. Morris, Philip Rothrock, C. A. Russell, and B. W. Whitlock, grain supervisors; J. T. Warner and R. E. White, assistant grain supervisors; L. N. Grant and F. W. Sweitzer, assistants in Federal grain supervision.

Board of Review, United States Grain Standards Act. O. F. PHILLIPS, *Grain Supervisor, Chairman.*

The Board of Review determines questions concerning interpretation of the official grain standards of the United States; it maintains uniform application of these standards by reviewing samples of grain inspected by Federal grain supervisors and licensed inspectors throughout the country, which samples come to the board of review through district offices of Federal grain supervision. The board also serves as a final body to which appeals may be taken by parties to a grain transaction in which either party may be dissatisfied with the grade assigned by a local district Federal grain supervisor to whom the party appealed from a grade originally assigned by a local licensed inspector.

Scientific staff.—W. J. O'Loughlin, J. E. Edwards, John Sheedy, J. A. LeRoy, B. W. Whitlock, B. J. Stubblefield, W. F. Shanahan, grain supervisors; W. J. Sheridan, assistant supervisor.

Division of Enforcement, United States Grain Standards Act. C. L. FINCH, *Assistant in Federal Grain Supervision.*

This project is concerned with the investigation of alleged violations of the United States grain standards act, and the conduct of hearings in connection with the same.

Scientific staff.—H. B. Evans, assistant in Federal grain supervision.

Grain Investigations. E. G. BOERNER, *Grain Supervisor.*

This project functions primarily as an organization to secure data for the purpose of enabling the Secretary of Agriculture to fix and establish official grain standards of the United States for grain under the United States grain standards act. This work involves investigations covering the milling and baking qualities of wheat and other grain and studies of the handling, transportation, grading, and storage of grain at country points and through the various channels of commerce.

Scientific staff.—P. J. Brittain, J. H. Cox, W. K. Marshall, J. H. Shollenberger, and W. D. Smith, grain supervisors; B. E. Rothgeb and R. H. Black, specialists in grain standardization; D. A. Coleman, investigator in grain standardization; E. N. Bates, investigator in grain handling; J. N. Arndt, investigator in grain dockage; G. P. Podnar, assistant in grain-dust explosions; J. F. Hayes, assistant in grain marketing; R. L. Baldwin, C. H. Bennett, C. R. Haller, Alfred Christie, H. E. Earp, H. C. Fellows,

H. B. Musser, and C. L. Phillips, scientific assistants in grain standardization; Elwood Hoffecker and L. H. Morley, assistants in grain standardization; Lucy M. Alexander, junior chemist.

Division of Hay, Feed, and Seed.

W. A. WHEELER, *Specialist in Seed Marketing.*

Hay, Feed, and Seed Marketing Investigations. G. C. EDLER, *Specialist in Seed Marketing*, and H. B. MCCLURE, *Specialist in Hay Marketing.*

This work covers the activities of all classes engaged in the handling of those commodities from grower to ultimate consumer. Detailed studies are made of the factors affecting the marketing of hay, feeds, seeds, and broom corn, including methods of preparation, selling, shipping, warehousing, etc. The inspection, grading, commission, and reconsignment of hay at terminal markets are studied, and comparisons of the use, value, and fitness of the present conflicting sets of hay rules formulated by various State and hay trade associations are being made preliminary to the establishment of Federal hay grades.

Scientific staff.—G. C. Wheeler, investigator in feed marketing; G. A. Collier, investigator in hay marketing; Matt A. Crosby, assistant in hay marketing; J. E. Barr, investigator in seed marketing; G. B. Alguire, assistant in marketing broom corn; H. B. Dixon, chemical laboratorian.

Hay, Feed, and Seed Reporting Service. G. C. EDLER, *Specialist in Seed Marketing*, and G. A. COLLIER, *Investigator in Hay Marketing.*

This service gives growers, shippers, dealers, consumers, and others interested reliable information relative to prices, supply, demand, movement, receipts, shipment, and other factors that have a bearing on the hay, feed, seed, and broom corn market at most of the distributing points throughout the country. The information is obtained by paid and voluntary correspondents in many hay, feed, and seed distributing and feed manufacturing centers, and from country shippers and farmers. The salient features in the data obtained are published weekly in the department publication, "Weather, Crops, and Markets," and in the Weekly Marketgram.

Scientific staff.—G. F. Kellogg, G. C. Wheeler, and J. E. Barr, investigators in marketing; W. M. King and G. B. Alguire, assistants in marketing.

Division of Crop Estimates.

LEON M. ESTABROOK, *Associate Chief of Bureau, in Charge*; WILLIAM F. CALLANDER, *Assistant to Chief of Bureau, acting in charge*; NAT C. MURRAY, *Chief Statistician.*

This division has charge of the crop and live stock estimates based upon data obtained from agricultural statisticians in the field and voluntary crop reporters.

Crop Reporting Board. SAMUEL A. JONES, *Secretary.*

A crop reporting board, consisting of the associate chief of bureau, Leon M. Estabrook (chairman), and four other statisticians selected from the division staff and one or more field statisticians of the division, considers in secret session all available data and issues periodic reports relative to acreage in planting season, condition and indicated yield during the growing season, and production and yield at harvest time of the principal crops and number of live stock.

Field Service. CHARLES E. GAGE, *in charge.*

The service outside of Washington consists of agricultural statisticians, clerks, and various independent lists of voluntary reporters, numbering in all approximately 220,000. The agricultural statistician in each State keeps in touch with the best informed opinion throughout his district by travel and by maintenance of a special corps of reporters, and renders periodic reports for his State. Of the voluntary correspondents, the county reporters submit reports regularly for their respective counties and the township reporters for their respective localities. Special lists of reporters are maintained for special inquiries. Reports from these independent sources are tabulated and summarized separately and each is used as a check on the others. These data are the basis of the Government crop reports.

Scientific staff.—A. E. Anderson, Joseph A. Becker, Fred W. Beier, jr., Chas. S. Bouton, George C. Bryant, Hal F. Bryant, Verne H. Church, A. D. Cook, John S. Dennee, Z. R. Pettet, S. D. Fessenden, S. T. Fleming, F. W. Gist, B. B. Hare, R. F. Hare, L. M. Harrison, H. O. Herbrandson, J. H. Jacobson, L. L. Janes, E. M. Johnston, Miner M. Justin, E. E. Kaufman, F. L. Kent, Paul H. Kirk, E. A. Logan, G. L. Morgan, G. L. Morris, Frank Parker, E. C. Paxton, F. S. Pinney, W. W. Putnam, G. S. Ray, V. A. Sanders, H. H. Schutz, J. B. Shepard, A. J. Surratt, H. M. Taylor, C. J. West, agricultural statisticians; F. N. Gray, Texas cotton specialist; Harris A. Marks, truck

crop specialist; Charles Sperle, truck crop investigator, Jay G. Diamond, junior agricultural statistician, George K. Holmes, statistical scientist.

Tabulating and Computing Section. FRED J. BLAIR, *Truck Crop Specialist in Charge.*

This section tabulates the monthly and special reports received at the Washington office from voluntary crop reporters and makes computations of averages, percentages, etc.

Clerical force.—The clerical force of this section maintains various independent lists of voluntary crop reporters to whom regular and special blank schedules of inquiry are submitted for data desired. The information so secured is tabulated and arranged in convenient form for study and analysis by the chief statistician and Crop Reporting Board.

Division of Statistical and Historical Research.

FRANK ANDREWS, *Statistical Scientist in Charge*; O. C. STINE, *Agricultural Economist, acting in charge.*

The Division of Statistical and Historical Research collects and makes available for study and use data relative to the agricultural products of the United States and foreign countries, prepares tables and special articles for the department Yearbook and bulletins, provides statistical information in response to special inquiries, and conducts inquiries relative to various economic phases of agriculture. Extensive files and a well equipped and comprehensive library of agricultural statistics and economics are maintained in the division.

Agricultural History.

In this section data are assembled which show the historical trend of agricultural organization, production, and prices. Studies are made of the evolution through which the country is passing in changing from a predominately agricultural nation to a nation engaged largely in manufacturing. The development of certain foreign countries which have passed through a similar evolution is studied in order to arrive at a better understanding of the changes taking place in the United States. A study is being completed for publication in bulletin form, showing the important shifts in American agriculture from 1840 to the present time.

Scientific staff.—Nils A. Olsen, assistant agricultural economist; Fred H. Shelledy, junior farm economist; Percy W. Bidwell, collaborator.

Foreign Competition and Demand.

Information and statistics covering foreign crop conditions, area and yield of the principal agricultural crops, methods of production, marketing methods, prices, consumption requirements, exports and imports, and other factors entering into the supply of and demand for American agricultural products are collected through various agencies in foreign countries and the United States. The Department of Agriculture is also a medium for transmitting the great amount of information collected by the Department of Commerce, by means of its representatives abroad, directly to farm and marketing organizations, agricultural colleges, and farmers. It is the function of this division to supplement and to put in proper form or interpret the information collected by these departments for distribution to those most interested in agriculture.

Scientific staff.—C. L. Luedtke, assistant in market information; George F. Frick, foreign crop specialist; Leo J. Schaben, assistant in marketing; Samuel H. De Vault, assistant agricultural economist; P. F. Brookens, assistant economist in marketing; Joe C. Barrett, junior assistant in market information; Lila Thompson, research assistant; George C. White, specialist in transportation; James G. Cross, specialist in transportation; Edward A. Foley, agricultural commissioner, London, England; D. S. Bullock, agricultural commissioner, Buenos Aires, Argentina; Louis G. Michael, consulting specialist, Balkan States; E. C. Squire, specialist in foreign marketing, in Europe.

Marketing Statistics. LEWIS B. FLOHR, *Investigator in Marketing.*

This section was formed to make and keep current, in cooperation with the various divisions of the bureau, complete and comprehensive tabulations and chartings of data pertaining to the marketing and distribution of farm products. These data concern prices, receipts and shipments, amounts inspected or graded, stocks on hand including cold storage holdings, amounts of farm products entering into manufacture, and other related subjects. Effort is made to analyze these data and present them at opportune times in a form useful to producers and consumers. Much of the material so prepared and analyzed appears in the department publication "Weather, Crops, and Markets."

Scientific staff.—John O. Bell, assistant in market surveys; John W. Strowbridge assistant in direct marketing; James J. Window and Mrs. June A. Hodgkins, scientific assistants.

Production Statistics.—PERRY ELLIOTT, *Statistical Scientist.*

The work of this section shall include keeping records of area, yield and production of crops of the United States, number of live stock on farms; utilization of land, production of farm machinery, farm prices of products, land values, wages, prices of commodities farmers buy, cost of production, disposition of agricultural products, compiling and analyzing statistical data relating to production and farm prices for publication.

Scientific staff.—George K. Holmes, statistical scientist.

Cost of Marketing Farm Products.

A. V. SWARTHOUT, *Investigator in Market Business Practice.*

Analytical cost studies are made for the purpose of measuring the losses, risks, and wastes of marketing and ascertaining the most economical marketing methods. Endeavor is made to secure a wider diffusion of accurate knowledge of marketing costs; to promote the use of the correct accounting methods by agencies concerned with the marketing of farm products; and to introduce a greater uniformity in cost records. The business practices of the various agencies engaged in marketing agricultural products are studied in order to devise suitable accounting systems and business practices for their use. Special investigations of the cost of marketing specific commodities are being carried on largely in connection with the commodity divisions.

Scientific staff.—Herbert C. Marshall, specialist in economic research; J. H. Conn, E. J. Way, H. F. Buchanan, F. E. Manning, J. H. Lister, George Bartlett, and R. M. Roudabush, assistants in market business practice; Avis B. Damon, junior assistant in market business practice; E. B. Ballow, assistant in cost of marketing investigations; N. C. Hall, research agent in marketing; Carl V. Maloney, live stock market reporter.

Division of Agricultural Cooperation.

LLOYD S. TENNY, *Assistant Chief of Bureau.*

Under this division, investigations are made of the economic importance of cooperation which include a comprehensive analysis of the various functions performed by private enterprises and by cooperative effort, an evaluation of these functions, and carefully arranged comparisons for the purpose of determining the relative efficiency of the different methods used in getting farm products from producer to consumer. A study of the legal problems arising out of cooperative relationships includes the collection, classification, and review of the legislative acts of various States and the summarizing of court decisions that are of importance to those interested in cooperation. Statistical material dealing with agricultural cooperation is being collected from countries in which cooperation has been used in the marketing of farm products.

Scientific staff.—A. W. McKay and R. H. Elsworth, specialists in market extension; L. S. Hulbert and W. Mackenzie Stevens, assistants in cooperative marketing; Theo. Wade, investigator in cooperative organization; Chris L. Christensen, temporary assistant in cooperative marketing (Denmark).

State Cooperation in Marketing Work.

The object of this work is to carry on in cooperation with various State agencies investigational and demonstrational work in connection with the marketing and distributing of farm products. Agents in marketing are located in the cooperating States, to assist in marketing investigations and demonstrations.

Scientific staff.—In Washington, D. C., G. O. Gatlin, assistant, State cooperation in marketing; and Frank S. Kinsey, food-products inspector. Colorado, W. F. Heppe; Georgia, Elmo Ragsdale; Maine, Charles M. White; Minnesota, Paul L. Miller; New Mexico, C. A. McNabb; New York, R. G. Knapp, John L. Horner, Walter P. Hedden; North Carolina, Garrett Shoemaker.

Division of Warehousing.

Administration of the United States Warehouse Act. H. S. YOHE, *Investigator in Marketing.*

The purpose of this work is to inspect warehouses applying for licenses under the United States warehouse act; to license warehouses that are found to be suitable for the proper storage of cotton, grains, flaxseed, wool, and tobacco; to license weighers, inspectors, classifiers, and graders desiring to inspect, weigh, and grade agricultural

products stored or to be stored in warehouses licensed under this act; to prescribe the duties of warehousemen licensed by the Secretary of Agriculture; to make rules and regulations for carrying out the provisions of the United States warehouse act, and to prescribe the conditions of the bond required of licensed warehousemen; to examine periodically warehouses which are licensed under the United States warehouse act in order to determine that they are complying with requirements of the act and regulations thereunder. These examinations may include an audit of the warehouse books, a check of receipts issued and cancelled, an invoice of the stock on hand, and an examination of the physical property. Such examinations are made with respect to each warehouse several times each year to investigate the storage, warehousing, classifying according to grade or otherwise, weighing and certification of cotton, grains, flaxseed, wool, and tobacco; to establish and promulgate standards for the agricultural products specified in the act not already standardized by the bureau or not handled by the other projects by which their quality or value may be judged or determined; and to make such other investigations as may be necessary for carrying out the provisions of the United States warehouse act.

Scientific staff.—J. P. Brown, F. G. Crout, F. B. Wilkinson, C. Nagel, R. L. Newton, and H. K. Holman, jr., investigators in warehousing; W. A. McKenna, R. C. Rowland, assistants in warehouse investigations; John P. Joines, A. L. Wiley, R. D. Cunningham, H. A. Parker, R. L. Cox, jr., Knowlton L. Hollis, J. T. Coffee, L. M. Jeffers, warehouse inspectors; J. K. Wood, specialist in cotton marketing; Joseph H. McLure, scientific assistant in cotton marketing; E. H. Matthewson, crop technologist; E. C. Vaughn, Charles N. Pulley, B. G. Anderson, Otto Olson, W. H. Green, and True Houser, assistants in tobacco investigations (cooperative); A. L. Rush, investigator in bulk-grain handling.

Completion of the Work of the Domestic Wool Section of the War Industries Board.

WELLS A. SHERMAN, *Specialist.*

By Executive order dated December 31, 1918, the work of the wool division of the War Industries Board was transferred to the Bureau of Markets. Since that date this bureau has been engaged in auditing reports received from dealers and in collecting and distributing to growers the excess profits made by those dealers.

Up to May 1, 1922, about 4,950 complete reports of 1918 wool transactions had been received from country dealers. In addition detailed reports were secured from 178 distributing center dealers, who operated in the year 1918. Of these, 1,054 dealers made excess profits.

A total of \$619,035.08 has been collected on account of excess profits. Refunds to wool growers to May 1, 1922, have amounted to \$313,032.68. The balance of the money which has been collected, as well as that which remains to be collected, will be distributed so far as possible to those growers to whom refunds are due. Total ascertained excess profits to be handled amount to approximately \$1,430,000.

Scientific staff.—William L. Evans, assistant in market services; Henry V. DeMott, assistant in wool investigations.

City Markets.

C. W. KITCHEN, *In Charge.*

This work contemplates the investigation of the methods of wholesaling and retailing, prices, farmer's preference, consumer's preference, etc., and includes studies of those problems of terminal distribution involved in provisioning city populations. Center Market, Washington, D. C., which is now under Federal control, is available for intensive studies along the line of city marketing. Investigations are made also of various types of markets in cities of different sizes.

Operation of Center Market.—C. W. KITCHEN, *Superintendent.*

Under an act of Congress dated March 4, 1921 (41 Stat. 1441), title to the Center Market property of the Washington Market Co., located between Seventh and Ninth Streets on Pennsylvania Avenue, was vested in the Secretary of Agriculture. Operation of the market and cold-storage plants was begun by the department April 1, 1922.

Staff.—L. A. Dellwig, assistant superintendent; Samuel R. Mullen, chief engineer; William J. Capner, receiving clerk; Charles Walleigh, accountant; W. H. Rohrman, junior assistant in market business practice.

BOARDS AND COMMITTEES.**Insecticide and Fungicide Board.**

The Insecticide and Fungicide Board, created December 22, 1910, assists the Secretary of Agriculture in the enforcement of the insecticide act of 1910.

Members.—J. K. Haywood, chairman; M. B. Waite, A. L. Quaintance, and James A. Emery; assistant to chairman, J. G. Shibley.

Federal Horticultural Board.

The Federal Horticultural Board, provided for in section 12 of the plant quarantine act of August 20, 1912, for the purpose of carrying out the provisions of that act, consists of the following persons:

Members.—C. L. Marlatt, chairman; W. A. Orton, vice chairman; George B. Sudworth, W. D. Hunter, and Karl F. Kellerman; R. C. Althouse, assistant to the chairman.

PORT INSPECTION SERVICE.

E. R. SASSCER, *Entomologist in Charge*; S. B. HERRELL, *Executive Assistant*.

INSPECTION SERVICE AT IMPORTANT OCEAN AND OTHER PORTS.—This service enforces the various plant quarantines at the actual ports of entry, and for this purpose inspects all entries of plants and plant products, under regulation, and guards against the entry of prohibited plants and plant products. The technical experts of this service are also charged with the inspection and disinfection of plant importations by the United States Department of Agriculture. The inspectors of this service are distributed as follows:

Baltimore.—C. E. Prince, plant quarantine inspector in charge.

Boston.—R. I. Smith, quarantine inspector in charge; W. G. Bemis and L. M. Scott, plant quarantine inspectors.

Calexico.—O. A. Pratt, plant quarantine inspector in charge.

New Orleans.—Curtis Benton, plant quarantine inspector in charge; W. T. Dillard, A. A. Stalmach, and C. P. Trotter, plant quarantine inspectors.

New York.—H. B. Shaw, pathologist in charge; R. G. Cogswell, H. G. Frank, L. C. Griffith, Emile Kostal, J. W. O'Brien, Joseph Rubinger, and Ralph Shemin, plant quarantine inspectors.

Philadelphia.—Max Kisliuk, plant quarantine inspector in charge; C. A. Davis, plant quarantine inspector.

Portland (Oreg.).—Harry Sargent, plant quarantine inspector in charge.

San Francisco.—W. S. Fields, pathological inspector in charge.

Seattle.—A. G. Webb, plant quarantine inspector in charge.

Washington.—W. B. Wood, chief inspector; H. L. Sanford, entomological inspector; Norman Perrine, assistant in plant fumigation; H. Y. Gouldman, R. D. Kennedy, W. T. Owrey, and L. L. Spessard, plant quarantine inspectors.

MEXICAN BORDER PORT INSPECTION SERVICE.—The inspectors engaged in this service are charged with the enforcement of the rules and regulations prohibiting the movement of cotton and cotton seed from Mexico into the United States, and supervise the cleaning and disinfection as a condition of entry into the United States of railway cars and other vehicles, freight, express, baggage, or other materials from Mexico at border points, to guard against the entry with such vehicles and materials of the pink bollworm of cotton. In addition, the inspectors, in cooperation with customs officials, enforce the other quarantine and regulatory orders which apply to Mexico. The inspectors are distributed as follows:

Brownsville.—O. D. Deputy, plant quarantine inspector in charge; C. C. Halbedl, plant quarantine inspector.

Del Rio.—L. R. Dorland, plant quarantine inspector in charge; Ivan Shiller, plant quarantine inspector.

Eagle Pass.—J. B. R. Leary, plant quarantine inspector in charge; C. E. Bellis, H. A. Horton, and M. M. Richardson, plant quarantine inspectors.

El Paso.—H. H. Willis, plant quarantine inspector in charge; T. A. Arnold, W. B. Clark, H. W. Lamp, and J. M. Singleton, plant quarantine inspectors.

Laredo.—E. S. Jewell, plant quarantine inspector in charge; J. E. Fouser, W. H. Freeman, E. G. Hagadorn, and V. J. Shiner, plant quarantine inspectors; H. R. Cary, assistant fumigation mechanic.

Nogales.—H. M. Cely, plant quarantine inspector in charge; F. A. Johnston, J. D. Waugh, and R. A. Rodgers, plant quarantine inspectors.

FOREIGN PLANT QUARANTINE AND PATHOLOGICAL INSPECTION SERVICE.

R. KENT BEATTIE, *Pathologist in Charge*; JOHN A. STEVENSON, *Chief Pathological Inspector*.

This service is charged with the enforcement of the rules and regulations under the various quarantines prohibiting or restricting entry of foreign plants and plant products for the purpose of excluding important plant pests. It issues all permits and licenses and enforces the safeguards provided for in the regulations with respect to the utilization of such imported products. The experts of this office also perform the pathological inspection with respect to imported plants and plant products in cooperation with the general inspection of such imports.

Scientific staff.—David Lumsden, horticulturist; John T. Rogers, W. S. Fields, James M. R. Adams, pathological inspectors; O. K. Courtney, A. J. Bruman, F. G. O'Donnell, M. Annette Emory, plant quarantine inspectors.

PINK BOLLWORM PROJECT.

W. D. HUNTER, *Entomologist in Charge*.

ERADICATION.—This work involves the inspection of cotton fields to determine any sporadic outbreaks of the pink bollworm; in cooperation with the State concerned the clean-up of any infested fields found; the establishment of cotton-free areas at points which may have been infested as a further means of extermination and of cotton-free zones on or near the border of any State or States adjacent to Mexico to prevent natural migration and entry of the insect; and the conduct of such other work as may be necessary to prevent the establishment or spread of the pink bollworm in the United States. Houston, Tex., is the field headquarters for the work, but most of the inspectors listed below are engaged in inspection and other work at different points in Texas, New Mexico, Louisiana, and other States concerned.

Houston office.—W. D. Hunter in charge; plant quarantine inspectors, Clarence G. Albrecht, Melmoth H. Atwood, Walter E. Ayers, Thomas J. Barlow, W. H. Baskin, G. Claude Bond, Robert C. Bondy, Lawrence J. Bottimer, James S. Brock, George W. Chowns, Daniel D. Clinton, Marshall E. Cole, Ira T. Collins, W. E. Conn, Leo F. Curl, Caleb P. Daley, William W. Decell, R. L. Eberhard, Roy A. Epperson, Ky P. Ewing, Marvin H. Ford, Benjamin C. Graham, Albert H. Greer, U. G. Haddon, Raymond B. Haller, G. G. Harris, Lorenzo D. Harris, Wendell R. Heard, Paul A. Hoidale, Kirby W. Holloway, Frank I. Jeffrey, Chester F. Jenkins, Walter T. Kelley, Miller J. Kerr, Robert B. Lattimore, Lester E. Lea, Douglas M. McEachern, H. C. Millender, Malcolm I. Miller, Miriman S. Mirimanian, Jules B. Moore, James H. Moreland, Peter L. Netterville, Walter Ohlendorf, Joe W. Patterson, Enoch F. Pepper, L. G. Plyler, Herbert B. Prickett, Felix S. Puckett, Robert H. Ramsey, Wayne F. Rice, William B. Rogers, Ralph R. Rosa, Ernest G. Small, A. V. Smith, Sidney D. Smith, William R. Smith, Warren R. Sudduth, F. O. Swan, Karl H. Townsend, Jackson V. Vernon, William E. Von Rosenberg, Oscar L. Walton, George B. Warren, Robert W. White, Edward L. Wilde, and J. Carter Woodward.

MEXICAN BORDER CONTROL WORK.—This work consists of surveys to determine the distribution of the pink bollworm in Mexico near the border of the United States, and, in cooperation with the Mexican government or local Mexican authorities, of conducting clean-up operations in an effort to exterminate local outbreaks of this insect.

The border survey and other control work is undertaken from time to time by special details of inspectors.

RESEARCH WORK IN MEXICO.—This work consists of a technical investigation of the pink bollworm in the Laguna, Mexico, as a basis for control measures, including life history studies, practical field control, and seed disinfection experiments.

Walter Ohlendorf, plant quarantine inspector in charge; Francis F. Bibby, Alpha C. Johnson, and Conrad R. Roitsch, plant quarantine inspectors.

EXTERMINATION OF POTATO WART.

This project is carried on in cooperation with the Bureau of Plant Industry. The work consists of surveys and control investigations.

Scientific staff.—Freeman Weiss, pathologist, project leader; N. Rex Hunt, pathologist; E. F. Artschwager, assistant pathologist; and R. P. Marshall, plant quarantine inspector.

DATE-PALM SCALE ERADICATION.

This work consists of direct field operations aiming at the eradication of the two important scale enemies of the date, and also of technical studies of these scale insects as a basis for the eradication and control work. This work is conducted in cooperation with the Bureaus of Entomology and Plant Industry.

COLLABORATORS OF THE BOARD.

Some 70 State officials connected with plant quarantine and control work have been appointed collaborators of the Federal Horticultural Board to assist in the enforcement of the various quarantine and regulatory orders issued under the plant quarantine act. More specifically for the actual inspection at destination of plants and plant products entering the United States under restriction, and for the enforcement of the quarantines at border and interior ports of entry in the States concerned.

Packers and Stockyards Administration.

The Packers and Stockyards Administration, created August 15, 1921, assists the Secretary of Agriculture in the enforcement of the packers and stockyards act, 1921, and the rules and regulations promulgated thereunder.

Administration.—Chester Morrill, Assistant to the Secretary, in charge; Stephen Bray, specialist in marketing live stock and meats; George T. Ash, chief clerk.

Legal.—Bayard T. Hainer, attorney; William Ellis, examiner.

Division of Trade Practices.—Howard M. Gore, specialist in marketing live stock in charge.

Division of Rates, Charges, and Registration.—G. N. Dagger, specialist in live-stock marketing costs in charge.

Investigational and research.—Earl S. Haines, examiner.

Division of Audits and Accounts.—Arthur S. French, general auditor in charge.

FIELD STAFF.

Atlanta office.—Dr. T. A. Geddes, supervisor.

Buffalo office.—Frank R. Hedrick, supervisor.

Chicago office.—Walter A. Williams, division supervisor; L. W. Krake, supervisor.

Cincinnati office.—Fred M. Greenleaf, supervisor.

Denver office.—James Christensen, division supervisor; C. D. Ardmore, local supervisor.

Detroit office.—James F. Gibbons, supervisor.

El Paso office.—John H. Ruff, supervisor.

Fort Worth office.—Vernon E. Foster, supervisor.

Indianapolis office.—Robert C. Ashby, supervisor.

Kansas City office.—F. W. Miller, division supervisor; Dr. C. D. Boardman.

Nashville office.—Mason L. Haskell, supervisor.

National Stock Yards office.—Theo. J. Perrin, supervisor.

New York City office.—Frank J. Miller, supervisor.

Omaha office.—George E. Butin, supervisor.

Philadelphia office.—Michael J. Gillaume, supervisor.

Pittsburgh office.—Sterling M. Price, supervisor.

Portland (North) office.—S. O. Gladness, supervisor.

San Francisco office.—C. H. Beauchamp, supervisor.

Sioux City office.—Charles S. Jones, supervisor.

South St. Paul office.—O. E. Dyson, supervisor.

Administration of Grain Future Trading Act.

The Administration of Grain Future Trading Act, created December 15, 1921, assists the Secretary of Agriculture in the enforcement of the future trading act.

Chester Morrill, Assistant to the Secretary, acting in charge; Rollin E. Smith, grain supervisor; George T. Ash, chief clerk.

Field offices.—Chicago, Dr. Joseph W. T. Duvel, grain-exchange supervisor in charge; Minneapolis, Jewett R. Mathewson, grain supervisor.

Editorial Committee of the Journal of Agricultural Research.

The Journal of Agricultural Research publishes technical papers giving the results of the various lines of research carried on by the department and by the State agricultural experiment stations. The selection of the papers and the conduct of the Journal are intrusted to the editorial committee.

Members.—K. F. Kellerman (chairman), E. W. Allen, and C. L. Marlatt for the Department of Agriculture; J. G. Lipman (New Jersey), W. A. Riley (Minnesota), and R. L. Watts (Pennsylvania) for the Association of Land-Grant Colleges; Margaret J. E. Brown, editorial clerk.

Fixed Nitrogen Research Laboratory.

Chemical Engineer and Director, RICHARD C. TOLMAN.

The Fixed Nitrogen Research Laboratory investigates methods for the fixation of atmospheric nitrogen by the arc, cyanamid, cyanide, and other processes. It also carries out investigations on methods of transforming nitrogen compounds from one form to another, and studies the properties of nitrogen compounds which may be useful in agriculture, explosives and the arts. Studies are made to further the fixation of nitrogen in the United States by governmental or commercial agencies and assistance given to such agencies.

HABER SECTION.

ALFRED T. LARSON, *Catalytical Chemist in Charge.*

The work of the Haber Research Section may be divided as follows:

1. *The study of ammonia catalysts.*—This includes the preparation and testing of catalyst materials and the development of technical methods for manufacturing the same.
2. *The production of hydrogen.*—This includes the investigation of water-gas catalysts and the study of other sources of hydrogen such as the decomposition of methane.
3. *Engineering problems.*—This includes metallurgical research on steels for high temperature and high pressure, also the design and testing of high-pressure apparatus such as compressors, gages, valves, insulated bushings, etc.

Scientific staff.—J. S. Vanick, W. E. Kuentzel, H. E. Hohl, C. A. Black, J. R. Carpenter, J. A. McCormick, W. Rosett, C. H. Young, E. C. White, A. P. Brooks, W. L. Newton, W. Hawkins, F. E. Smith, L. A. Stengel, D. W. Kitchin, C. W. Whittaker, E. J. Fox, C. N. Richardson, L. Smith.

BUREAU OF SOILS SECTION.

ROYAL O. E. DAVIS, *in charge.* In cooperation with the Bureau of Soils.

This section is carrying out investigations of the best methods of removing from the circulating system, ammonia which has been synthesized by the Haber process.

Scientific staff.—L. B. Olmstead, J. D. Kershaw, F. O. Lundstrom.

CYANAMID SECTION.

JOSEPH M. BRAHAM, *Chemical Engineer in Charge.*

The work of the Cyanamid Section consists principally in conducting investigations (a) on the cyanamid and cyanide processes of nitrogen fixation; (b) on the transformation of primary products of nitrogen fixation into other forms required for agricultural, industrial, and military purposes; and (c) on the agricultural utilization of new fixed nitrogen products, in cooperation with other bureaus of the department.

Scientific staff.—F. E. Allison, H. J. Krase, E. W. Guernsey, N. W. Krase, K. D. Jacobs, J. S. Blair, J. Y. Yee, V. L. Gaddy, M. Sherman, C. D. Garby, L. A. Pinck, M. A. Kelly.

ARC SECTION.

SEBASTIAN KARRER, *Ionic Physicist in Charge.*

The work of the Arc Section may be classed as follows: Study of arc processes now commercially used; formation of ozone in the electrical discharge; physical and chemical properties of ozone; formation and properties of "active" nitrogen.

Scientific staff.—A. C. Bright, O. R. Wulf, E. H. Johnston.

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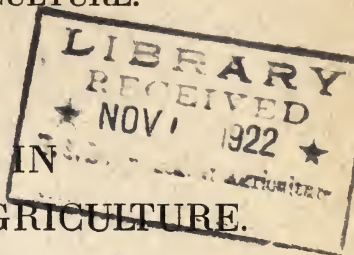
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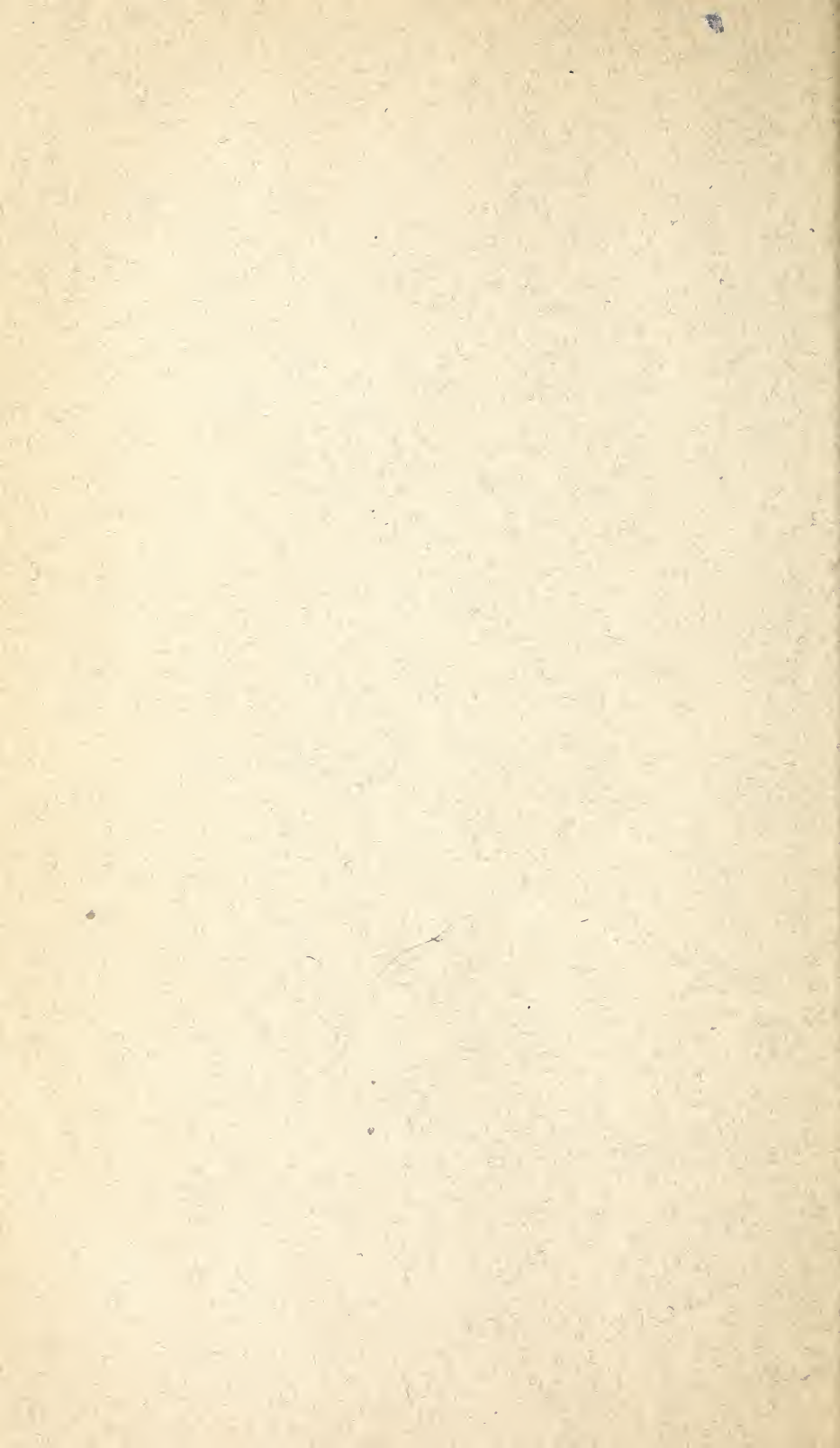
PART 2. State Agricultural Colleges and Experiment Stations.

Prepared in the States Relations Service,
A. C. TRUE, Director.

1921-1922.



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KEY TO ABBREVIATIONS.

Acct., Accountant, Accounts.
Actg., Acting.
Admin., Administration, Administrative.
Agr., Agriculture, Agriculturist, Agricultural.
Agron., Agronomy, Agronomist.
Agt., Agent.
An., Animal.
Anal., Analytical, Analysis.
Anat., Anatomy.
Arch., Architecture.
Assoc., Associate, Association.
Asst., Assistant.
Bact., Bacteriology, Bacteriologist.
Biochem., Biochemist, Biochemistry.
Biol., Biology, Biologist, Biological.
Bot., Botany, Botanist, Botanical.
Brdg., Breeding.
Chair., Chairman.
Chem., Chemistry, Chemist, Chemical.
Climat., Climatology, Climatologist.
Coll., College.
Comp., Comparative.
Comm., Commission.
Comr., Commissioner.
Consult., Consulting.
Coop., Cooperation, Cooperative, Cooperator.
Corresp., Correspondence, Correspondent.
Dem., Demonstration, Demonstrator.
Dept., Department.
Dir., Director.
Div., Division.
Dom., Domestic.
Econ., Economy, Economic, Economics.
Ed., Education.
Ele., Elementary.
Engin., Engineer, Engineering.
Ent., Entomology, Entomologist, Entomological.
Erad., Eradication.
Expt., Experiment, Experimentalist, Experimental.
Ext., Extension.
Feed., Feeding.
Fert., Fertility, Fertilizer.
Flor., Floriculture, Floriculturist, Floricultural.
For., Forestry.
Gard., Gardening.
Gen., General.
Geol., Geology, Geologist, Geological.
Grad., Graduate.
Histol., Histology.
Hon., Honorary.
Hort., Horticulture, Horticulturist, Horticultural.
Husb., Husbandry, Husbandman.
Hyg., Hygiene.

Indus., Industry, Industrial, Industries.
Inorg., Inorganic.
Insp., Inspection, Inspector.
Instr., Instruction, Instructor.
Insts., Institutes.
Invest., Investigations, Investigational.
Irrig., Irrigation, Irrigationist.
Lab., Laboratory.
Landsc., Landscape.
Lect., Lecturer.
Libr., Library, Librarian.
Mach., Machine, Machinery.
Mech., Mechanics, Mechanical.
Mct., Meteorology, Meteorologist.
Mfrs., Manufacturers.
Mgr., Manager.
Mgt., Management.
Microbiol., Microbiology, Microbiologist.
Mycol., Mycology, Mycologist.
Nutr., Nutrition.
Oler., Olericulture, Olericulturist.
Org., Organic.
Ornith., Ornithology, Ornithologist.
Parasitol., Parasitology, Parasitologist.
Path., Pathology, Pathologist.
Pedag., Pedagogy, Pedagogics.
Pharm., Pharmacy, Pharmacist, Pharmaceutical.
Photog., Photography, Photographer.
Phys., Physics, Physicist, Physical.
Physiol., Physiology, Physiologist, Physiological.
Pomol., Pomology, Pomologist, Pomological.
Pract., Practice, Practical.
Prep., Preparatory.
Pres., President.
Prin., Principal.
Prod., Production, Products.
Prof., Professor.
Pubs., Publications.
Sci., Science, Scientific.
Secy., Secretary.
Secon., Secondary.
Sociol., Sociology.
Sta., Station.
Substa., Substation.
Supt., Superintendent.
Supvr., Supervisor.
Surg., Surgery.
Tech., Technology, Technologist, Technical.
Treas., Treasurer.
Trop., Tropical.
Univ., University.
Veg., Vegetable, Vegetation.
Vet., Veterinary, Veterinarian.
Vit., Viticulture, Viticulturist, Viticultural.
Voc., Vocational.
Zool., Zoology, Zoologist.

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†Gertrude L. Lynn, M. S., *Home Mgt. Specialist.*
*†A. C. McCandlish, M. S., *Prof. Dairy Husb.; Chief Dairy Husb. Section.*
*Jessie McCorkindale, B. S., *Instr. Household Art.*

¹ On leave.² Assumed duties Sept. 15.

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 ‡Muri McDonald, B. S., *County Agt. Leader.*
 *Elizabeth McKim, M. S., *Instr. Chem.*
 *H. M. McLaughlin, M. A., *Instr. Chem.*
 *G. W. McNutt, D. V. M., *Instr. Vet. Anat.*
 *S. H. McNutt, D. V. M., *Asst. Prof. Vet. Research.*
 *†G. B. MacDonald, M. F., *Prof. For.; Chief in For.*
 †T. J. Maney, B. S., *Chief in Pomol.*
 *J. N. Martin, Ph. D., *Prof. Plant Morphology.*
 *H. L. Maxwell, M. A., *Instr. Chem.*
 *†I. E. Melhus, Ph. D., *Prof. Plant. Path.; Chief in Plant Path.*
 *E. M. Mervine, M. E., *Assoc. Prof. Agr. Engin.*
 †H. J. Metcalf, *in charge Information Service.*
 *Cora B. Miller, B. S., *Assoc. Prof. Voc. Ed. in Home Econ.*
 *Elizabeth W. Miller, Ph. D., *Head Grad. Dept. in Home Econ.*
 *Willetta Moore, B. S., *Instr. Household Sci.*
 *G. C. Morbeck, M. F., *Assoc. Prof. For.*
 *†Martin Mortensen, B. S., *Head Dept. of Dairying.*
 †J. H. Muncie, M. S., *Asst. in Bot. and Plant Path.*
 *H. S. Murphey, D. V. M., *Head Dept. of Vet. Anat.*
 *Eda L. Murphy, *Asst. Prof. Household Sci.*
 *Charles Murray, D. V. M., *Head Dept. of Vet. Research.*
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